MANSFIELD UNIVERSITY

UNDERGRADUATE CATALOG

2002 - 2003

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Mansfield University

2002-2003

Undergraduate

Catalog

Mansfield University of Pennsylvania
Mansfield, PA 16933

Admissions Office
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Fax: 570-662-4121
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Web Site: www.mansfield.edu

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ADMINISTRATION AND INFORMATION

President
Dr. John R. Halstead
North Hall 500; 570-662-4046

Provost and Vice President for Academic Affairs
Dr. Michael R. Lane
North Hall 508; 570-662-4804

Vice President for Development
North Hall 524; 570-662-4292

Vice President for Student Affairs
North Hall 516; 570-662-4930

Vice President for Administration & Finance
Dr. Stephen Bronn
North Hall 529; 570-662-4881

Associate Provost, Graduate Studies
Dr. Nancy Cooledge
North Hall 509; 570-662-4807

Assistant Provost
Dr. Russell Cooper
North Hall 504; 570-662-4171

Admissions
Mr. Brian Barden, Director
Alumni Hall G4; 570-662-4243

Center for Lifelong Learning
Ms. Susan Sweet, Director
Memorial Hall 205; 570-662-4244

Financial Aid
Ms. Darcie Stephens, Director
South Hall 109; 570-662-4129

Information Resources
Dr. Larry Nesbit, Director
North Hall 214; 570-662-4672

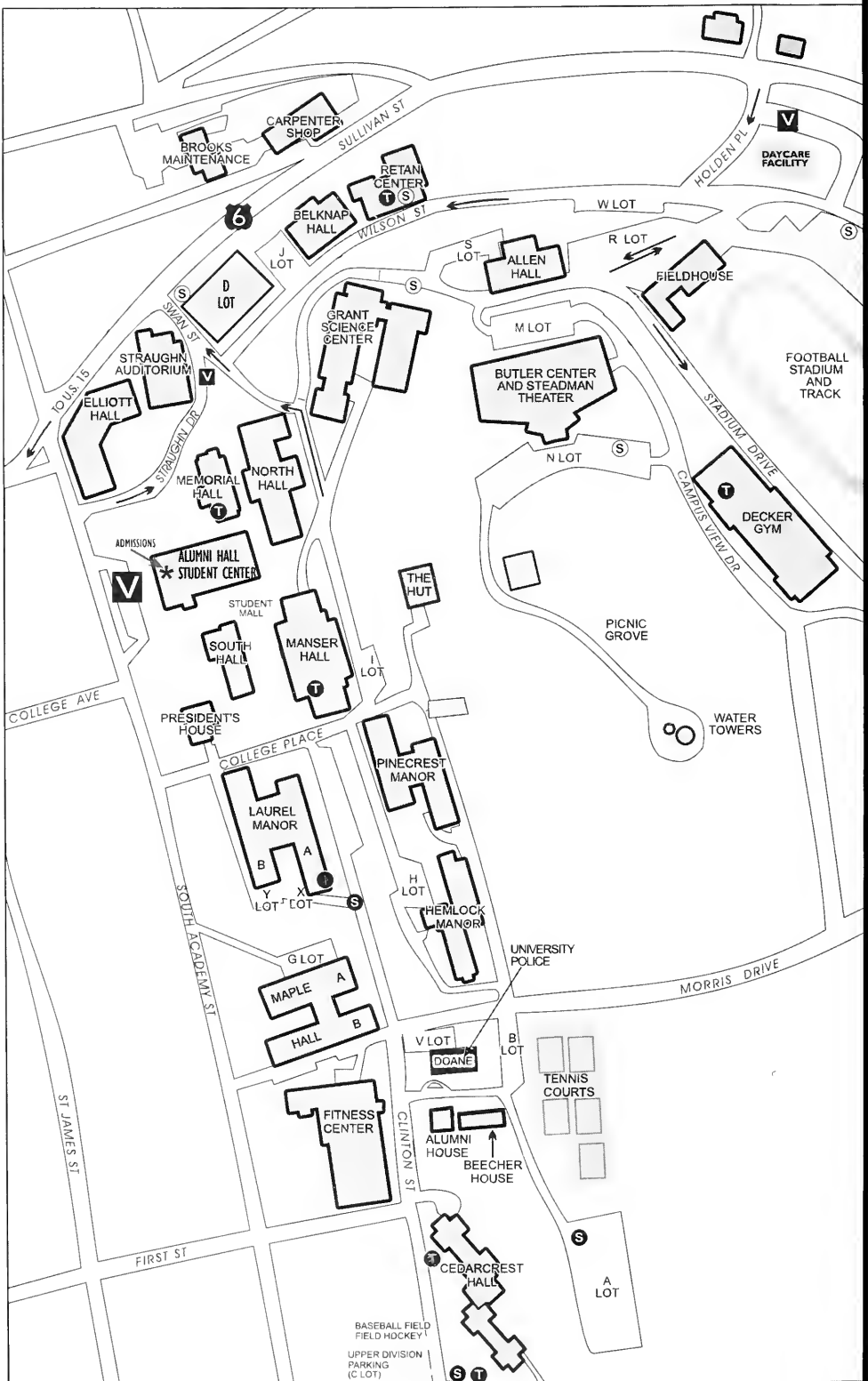
Information Technology
Ms. Connie Beckman, Director
Memorial Hall 002; 570-662-4830

Public Relations
Mr. Dennis R. Miller, Director
Beecher House; 570-662-4846

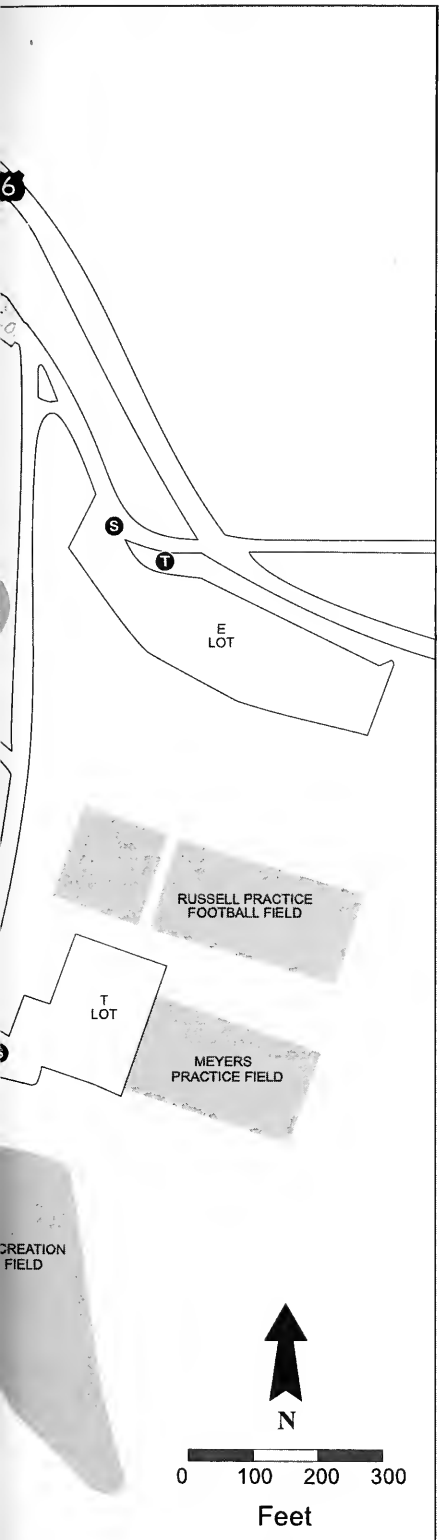
Residence Life
Mr. Michael Lemasters, Director
Pinecrest 120; 570-662-4933

Student Accounts
Carmen Wood, Director
South Hall 101; 570-662-4888

Controller's Office
Mr. Curt Tofts
Alumni Hall 129; 570-662-4868


BROOKS MAINTENANCE
CARPENTER SHOP
SULLIVAN ST
RETAN CENTER
BELKNAP HALL
WILSON ST
W LOT
HOLDEN PL
DAYCARE FACILITY
J LOT
D LOT
S LOT
ALLEN HALL
R LOT
FIELDHOUSE
SWAN ST
GRANT SCIENCE CENTER
M LOT
FOOTBALL STADIUM AND TRACK
STRAUGHN AUDITORIUM
BUTLER CENTER AND STEADMAN THEATER
TO US 15
ELLIOTT HALL
STRAUGHN DR
STADIUM DRIVE
N LOT
MEMORIAL HALL
NORTH HALL
CAMPUS VIEW DR
DECKER GYM
ADMISSIONS
ALUMNI HALL * STUDENT CENTER
THE HUT
STUDENT MALL
PICNIC GROVE
SOUTH HALL
MANSER HALL
I LOT
COLLEGE AVE
PRESIDENT'S HOUSE
WATER TOWERS
COLLEGE PLACE
PINECREST MANOR
LAUREL MANOR
A
B
Y LOT
X LOT
H LOT
HEMLOCK MANOR
SOUTH ACADEMY ST
G LOT
UNIVERSITY POLICE
MAPLE HALL
A
B
MORRIS DRIVE
V LOT
DOANE
B LOT
TENNIS COURTS
FITNESS CENTER
CLINTON ST
ALUMNI HOUSE
BEECHER HOUSE
ST JAMES ST
FIRST ST
CEDARCREST HALL
A LOT
BASEBALL FIELD
FIELD HOCKEY
UPPER DIVISION PARKING (C LOT)

Ma

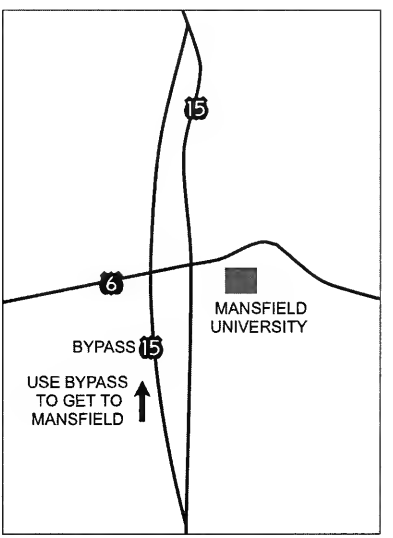


ersity Department of Geography and Geology

Ⓢ Shuttle Stop 8 p.m. - 10:30 p.m.
Ⓢ Shuttle Stop 8 p.m. - Midnight
Ⓣ Public Telephone (911 service)
Ⓥ Visitors Parking

★ Admissions - Alumni Hall, Ground Floor
1.800.577.6826
Academic Advising Center - South Hall 110
570.662.4824
Athletics - Decker Gymnasium 111
570.662.4860
University Police - Doane Center
570.662.4900
Career Development - South Hall 305
570.662.4820
Center for Life Long Learning - Doane Center 209
570.662.4244
Certification Office - Retan Center 111C
570.662-4565
Financial Planning - Alumni Hall 104
570.662.4878
Residence Life - Pinecrest 120
570-662-4933
Revenue - South Hall 101
570.662.4888

Commuter Parking
(Lots K,L, N, R, W)



UNIVERSITY CALENDAR

2002-2003

Fall Semester, 2002

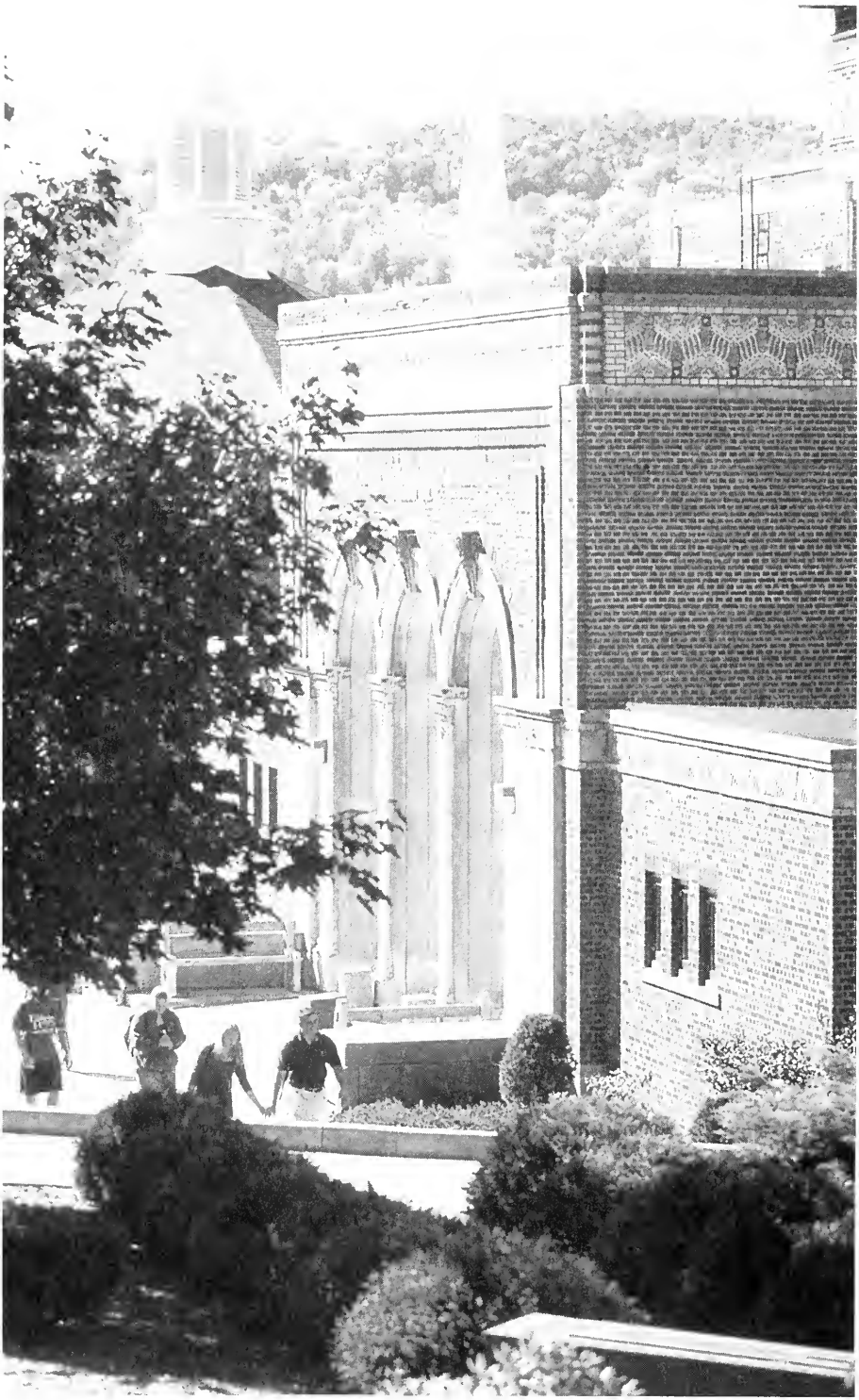
University Meeting Days	Th—F	August 22-23
Residence Halls Open:		
New Students	Sa	August 24
Returning Students	Su	August 25
Academic Orientation Day	M	August 26
Classes Begin at 4:00 pm	M	August 26
Labor Day – No Classes	M	September 2
Monday Class Schedule	Tu	September 3
Last Day to DROP Classes	Tu	September 3
Last Day to:	W	September 4
ADD Classes		
Submit "Credit-By-Exam" form		
Submit "Intent to Graduate" form for May 2003		
Submit "Pass/Fail Option" Card		
Submit "Repeat of Course" Card		
Last Day to Submit "Incomplete" Grades	Tu	September 17
Last Day to Complete "Credit-By-Exam"	Tu	September 24
Mid-Semester Grades Due	F	October 11
Fall Holiday – No Classes	M	October 14
Last Day To Withdraw From A Course	F	October 25
Registration for Spring Semester Begins	M	October 28
Thanksgiving Holiday - No Classes	W-Fri	November 27-29
Fall Semester Classes End	F	December 6
Final Examination Period *	M-Fri	December 9-13
Residence Halls Close	F	December 13
Fall Commencement	Sa	December 14
Fall Semester Grades Due (12:00 Noon)	M	December 16
Academic Review Board	W-Fri	January 8-10

*Friday is reserved for make up if it is necessary for the University to cancel final exams on one of the other days.

Spring Semester, 2003

University Meeting Days	Th—F	Jan 9-10
Residence Halls Open	Su	Jan 12
Classes Begin at 8:00 am	M	Jan 13
Martin Luther King Holiday – No Classes	M	Jan 20
Last Day to DROP Classes	Tu	Jan 21
Last Day to:	W	Jan 22
ADD Classes		
Submit "Credit-By-Exam" form		
Submit "Intent to Graduate" form for December 2003		
Submit "Pass/Fail Option" Card		
Submit "Repeat of Course" Card		
Last Day to Submit "Incomplete" grades	M	Feb 3
Last Day to Complete "Credit-by-Exam"	M	Feb 10
Mid-Semester Grades Due	F	Feb 28
Spring Holiday - No Classes	M-F	Mar 3-7
Last Day To Withdraw From A Course	F	Mar 21
Registration For Fall Semester Begins	M	Mar 31
Spring Semester Classes End	F	Apr 25
Final Examination Period *	M-Fri	Apr 28-May 2
Residence Halls Close	F	May 2
Spring Commencement	Sa	May 3
Spring Semester Grades Due (12:00 Noon)	M	May 5
Academic Review Board	W-F	May 14-16

* Friday is reserved for make up if it is necessary for the University to cancel final exams on one of the other days.



I. INSTITUTIONAL HISTORY AND INFORMATION

HISTORY

Mansfield University was founded in 1857. Four months after the school opened, it burned to the ground. Area residents were so committed to having a college, they immediately rebuilt it. Over the decades, we've gone through five name changes: Mansfield Classical Seminary, State Normal School, State Teacher's College, and State College. In 1983, we became Mansfield University, a member of the Pennsylvania State System of Higher Education.

On September 28, 1892, Mansfield made history when our football team played the first night football game in history. The game is re-enacted each year during the Fabulous 1890's Weekend.

In 1996, renovations to the historic North Hall were completed. The elegant 19th century Victorian structure now houses one of the world's most state-of-the-art, hi-tech libraries. In 1997, the Rod C. Kelchner Fitness Center opened, within a short walk from each residence hall. During spring 2000, a new student union in Alumni Hall was opened and just before the fall 2000 semester, we opened our new child care center.

MU FACTS

The campus consists of 174 acres and 39 buildings; multiple recreation areas, tennis courts, and playing fields; an indoor swimming pool, three auditoriums, a state-of-the-art library, a new fitness center, a new student union, and a new child care center.

STUDENT ENROLLMENT

3303 enrolled in the fall of 2001: 2,745 full-time and 558 part-time; 2223 female, 1,280 male. Students come from 14 states and 20 foreign countries.

STUDENT-FACULTY RATIO

The ratio is 17:1. Approximately 72% of our classes have fewer than 30 students; 41% have fewer than 20 students; and only 2% have 50 or more students.

STUDENT FINANCIAL AID

More than 80% of undergraduate students receive financial assistance in some form. This includes federal, state, and institutional grants; a variety of loans and employment.

FACULTY

We have 168 full-time faculty; 30% of these are full professors and more than 74% have PhDs or other terminal degrees.

PROGRAMS OF STUDY

We offer 10 two-year associate degree programs, 71 four-year baccalaureate programs in the liberal arts and professional studies, and 6 master's degree programs. We also offer 45 minors.

SPECIAL OPTIONS

We offer multiple majors, a self-developed major, an honors program, internships, independent studies, individualized instructions, and study abroad opportunities.

COLLEGE FINANCIAL DATA:
Our physical plant has a value of $70,000,000 and our 2001-2002 operating budget was approximately $50,000,000.

ACCREDITATION
The principal accrediting agencies for Mansfield University undergraduate programs are:

The Middle States Association of Colleges and Secondary Schools

The National Council for Accreditation of Teacher Education

The National Association of Schools of Music

The National Association for Music Therapy

The Council on Social Work Education

The Committee for Allied Health Education .

The National League for Nursing Accrediting Commission

JRC Joint Review Commission on Education in Radiologic Technology – Radiology – 20 North Wacker Drive, Suite 900, Chicago IL 60606-2901

The National Accreditation Agency for Clinical Laboratory Sciences

Commission on Accreditation/Approval for Dietetics Association

LOCATION
Mansfield is a borough of 4,000 persons located in the Northern Tier of Pennsylvania at the intersection of U.S. 15 and U.S. 6. We're 50 miles north of Williamsport, PA and 30 miles south of Corning, NY. Driving time from: Harrisburg, PA, 3 hours; Scranton, PA, 2 hours; Buffalo, NY, 3 hours; Binghamton, NY, 2 hours; Philadelphia, PA, 4 hours; Pittsburgh, PA, 5 hours; New York City, 5 hours. Daily bus service, north and south, connects all points in the northeast U.S.

REGION
Year-round outdoor activities are available in the immediate region. Opportunities include hunting, fishing, skiing, camping, hiking, and water sports. Cultural attractions include the Clemens Center of Performing Arts in Elmira, NY; Corning Museum of Glass and Rockwell Museum of Western Art in Corning, NY.

CULTURAL ACTIVITIES
We offer a variety of cultural activities during the academic year. The Faculty Lecture and Film Series, Women's Art and Culture Week, and Global Issues Week are traditions at Mansfield. The Fine Arts Series offers a variety of professional music and dramatic performances and monthly art exhibitions, and there are regular recitals by music faculty and students throughout the year. Fiction and poetry readings as well as other cultural activities round out the University's cultural opportunities.

LIBRARY FACILITIES
Mansfield University has one of the newest and most electronically advanced libraries in the United States. The recently renovated six-story North Hall provides an elegant 19th century setting where you can access information from around the world through our computers and links to the Internet.

RESIDENCE HALLS

Five residence halls house approximately 1,800 students. Housing options include wellness floors, travel floors, 24-hour quiet areas, non-smoking floors, and one building which houses females only.

CALENDAR

Our regular academic calendar consists of a fall semester which ends before Christmas and a spring semester ending in early May. We also offer three summer sessions from May through August.

MISSION STATEMENT

Mansfield University is dedicated to providing an environment that promotes academic and personal growth as well as intellectual, ethical, and aesthetic values. The University serves the region, state, national and international communities by developing human and material resources. The University is committed to stimulating continuous pursuit of knowledge and understanding by students, staff, and faculty. To accomplish this mission, Mansfield University pledges:

- To provide a liberal education for all its students.
- To prepare students for full and purposeful lives through undergraduate and graduate instruction in liberal arts and professional programs.
- To plan, develop, implement, and measure its efforts in providing optimum learning opportunities for students of a variety of ages, backgrounds, and needs.
- To promote affirmative action and equal opportunity.
- To maintain a faculty dedicated to teaching and scholarship.
- To cooperate with other educational institutions for the achievement of mutual goals.
- To provide educational and cultural programs to the general community.
- To offer expertise in public service activities.

STATEMENT OF DIVERSITY

Graduates of Mansfield University participate in a world that has been enriched by knowledge, insights, and traditions of diverse peoples who live and work together. An academic community that values diversity by words and actions provides the best environment in which students can learn the social skills necessary to participate and flourish in our multi-cultural environment.

The Mansfield University Council of Trustees reaffirms the purpose of Mansfield University, as stated by former President Simon B. Elliot in 1912, to strive to make education universal; that the rich and the poor, the child of those who have power and place, and of those who tread the lowly paths of life, shall receive alike the blessings of education....and invite equally and alike, without distinction of sex, or color, or race, or creed, or party, the children of all who may desire to participate in the opportunities here offered. That is the highest purpose for which Mansfield may be praised.

II. ADMISSIONS

REQUIREMENTS FOR ADMISSION

To be considered for admission to Mansfield University you must graduate from an approved secondary school or have obtained equivalent preparation as determined by the Credentials Evaluation Division of the Pennsylvania Department of Education. Admission to the University is granted to those applicants who successfully complete college preparatory secondary school work (grades 9-12). Credentials should also include a class rank in the upper three fifths of the graduating class and a satisfactory score on the Scholastic Aptitude Test (SAT) or the American College Testing (ACT). The SAT or ACT scores are not required if the applicant is 21 years or older or has been out of high school for three or more years.

Recommended Preparatory Course Work

English	4 Credits
History or Social Studies	4 Credits
Laboratory Science (Bio, Chem)	2-3 Credits
Algebra, Plane Geometry, Algebra 2	3-4 Credits
Foreign Language	2-4 Credits
Electives (academic)	6 Credits
Total	21-25 Credits

APPLICATION PROCEDURES

Contact the Admissions Office to receive an application for admission to the undergraduate programs. The Admissions Office begins accepting applications on July 1 following the student's junior year of high school. A complete application should include a $25 non-refundable application fee as well as the following credentials:

1. An official high school transcript (an official copy must bear school seal and signature of an official).
2. An official copy of the Scholastic Aptitude Test (SAT) or American College Test (ACT) results.

DEADLINES FOR APPLICATION

Mansfield University has a rolling admissions policy. We encourage you to apply early. All applications are considered based upon academic credentials and space availability for the entry date requested. Once we receive all credentials and supporting documents, the Admissions Committee will notify you in a timely fashion. Some scholarships and space in specific academic programs are also awarded on a rolling basis; therefore, it can be advantageous to apply early in the calendar year.

WHEN OFFERED ADMISSION

Applicants offered admission while still enrolled in high school/college are expected to maintain or improve upon the academic scholarship presented when the credentials are initially reviewed. Failure to maintain scholarship, as reflected on final official transcripts (including class rank, grade point average, and course/credits scheduled) may result in revocation of the offer of admission.

When you have been granted admission and fail to enroll, the offer of acceptance is valid for one year from the initial entry date, provided the academic credentials have not decreased in the meantime. After one year you must reapply for admission as a new applicant and meet the standards for acceptance current at the time of reapplication.

The university reserves the right to establish or change admission standards as it deems necessary.

ADMISSION CATEGORIES

If you meet the academic qualifications as outlined you will be offered admission to the university as a regular admit for the fall semester. Other admissions categories are described below.

EARLY DECISION

Consideration for an early admission decision for fall entrance is given to candidates who meet prescribed academic requirements as demonstrated by their high school grades and junior year SAT scores. Those offered admission through this program also submit scores from a senior year examination of the SAT. Applicants who qualify for early decision are notified when we receive the completed application, application fee, official high school transcript, and junior year SAT/ACT scores.

An advance deposit must be paid within 30 days of the offer of admission to reserve a space in the incoming class.

DEVELOPMENTAL PROGRAMS

If you show a potential for success in college but do not meet the regular requirements for fall acceptance, you may be considered for one of our developmental programs. You may not have completed the recommended high school course sequence or may require preparatory course work to polish your skills. Your high school credentials may rank below the university's minimum requirements but reveal potential for future success.

Students selected for participation in a developmental program must complete preparatory course work which is based upon diagnostic-placement results and receive tutoring and advising assistance. Upon successful completion of the program, students continue in a matriculated status. There are limited spaces for enrollment in these developmental programs.

EARLY ADMISSION

If you are a high school senior who meets our admission requirements and are interested in attending full-time in lieu of attending high school in your senior year, upon final approval and acceptance, you would be considered a freshmen at Mansfield University. All policies and procedures applicable to university freshmen apply. Should you select this option, you are responsible for obtaining permission from your high school administration/school board to attend Mansfield University in lieu of your senior year of studies within high school. We strongly recommend that you secure a written statement of approval as well as a statement assuring you that, upon successful completion of your freshman year of studies and presentation of an official transcript of scholastic achievement, a high school diploma will be awarded by the high school of origin. Any specific course requirements which must be fulfilled during the freshman year of college studies to satisfy requirements for a high school diploma must be identified by the guidance counselor on the Admissions form.

You must file an application form, submit official high school transcripts, standardized test scores, and letters of recommendation, including a recommendation from the high school guidance counselor. The need to take any developmental course work in the basic skill areas of reading, writing, or mathematics will result in disapproval of the application.

VISITING STUDENT PROGRAM

The Visiting Student Program allows students enrolled full-time at a Pennsylvania State System of Higher Education university to enroll at a sister institution for a limited period. A student wishing to enroll at Mansfield University as a visiting student must receive permission from his or her home university. The student must have satisfactorily completed at least 27 credits at the home university and be in good academic standing. A maximum of 18 credits may be taken in a single semester and up to 16 credits of summer work as a visiting student.

Applications for visiting student status are submitted to Mansfield University's Office of the Provost for approval. The completed visiting student application (available from the home institution) provides verification of good academic standing. No further credentials are required for admission into the visiting student program at Mansfield University.

The visiting student should request a Mansfield University transcript be forwarded to the home campus after courses have been completed. Mansfield University assigns credits and grades in accordance with its own polices and procedures.

SPECIAL ART/MUSIC PROGRAM REQUIREMENTS

Applicants for an art degree must satisfy general college admission requirements and present a portfolio of work to the Art Department for evaluation prior to formal acceptance into an art program. For further information contact the Art Department (570) 662-4500.

Applicants for a music degree, having satisfied the requirements for general college admission, must audition for acceptance into the music department. Acceptance is based upon a demonstration of both musical aptitude and musical accomplishment. For further information contact the Music Department (570) 662-4710.

TRANSFER ADMISSION

Students are normally eligible for transfer admission if they have attained an overall 2.0 cumulative quality point average (QPA) at an accredited post-secondary institution. Exceptions are as follows: Nursing, 2.5 QPA; Education, 2.8 QPA. Credit is awarded for college level courses completed in accredited colleges/universities. Accredited is defined to include accreditation by any of the seven regional accrediting bodies only, e.g. Middle States for this region. Credits presented from non-accredited colleges or universities are not eligible for transfer consideration.

Contact the Office of Admissions for a transfer application or visit our website (www.mansfield.edu) to apply on-line. Transfer students submit the application along with official transcript(s) from all post-secondary institutions previously attended. All information is sent to the Transfer Coordinator in the Admissions Office. Mansfield University has a rolling admissions policy. All interested applicants are encouraged to apply early. Applications will be considered based upon academic credentials and space availability for the entry date requested.

Applicants who have earned fewer than 30 credits in college level work are required to submit an official high school transcript and an official record of the SAT or ACT. The SAT or ACT scores are not required if the applicant is 21 years or older or has been out of high school for three or more years.

Students approved for transfer to Mansfield University and enrolled at another institution are granted admission on a provisional basis until all records from the previous institution have been reviewed and finalized.

TRANSFER EVALUATION

Following acceptance into the university, an evaluation of courses taken at previous institutions is made by the Transfer Coordinator in consultation with the chairperson of the student's major department.

Credits are evaluated on a course-by-course basis. Exceptions to this policy are specified in the State System of Higher Education Academic Passport for students transferring from Pennsylvania community colleges and transfer agreements between Mansfield University and many two year institutions. Currently, agreements exist with Bucks County Community College, Cambria County Community College, Corning Community College, Harrisburg Area Community College, Keystone College, Lackawanna Junior College, Lehigh-Carbon Community College, Luzerne County Community College, Pennsylvania College of Technology, and Reading Area Community College.

Actual grades and the quality point average (QPA) do not transfer from any previous institution. It is the credits earned that transfer.

The number of credit hours that transfer from another institution cannot be more than the number awarded for completion of course work at that college/university. For example, some institutions do not give credit for physical education courses. A student accepted from such an institution is considered to have met the physical education requirement at Mansfield for as many PE courses as taken previously, but no credit would be awarded. Similarly, Introductory Biology might carry three credits at another institution and three credits would be given in transfer for such course even though the equivalent biology at Mansfield is four credits. Furthermore, if a U.S. History course is four credits at another institution, four credits would be given in transfer even though U.S. History at Mansfield University is a three-credit course.

Because of the time sequence necessary for the development of skills required by the music curriculum, students are advised to transfer as early as possible. Otherwise, it becomes increasingly difficult to complete the curriculum within the normal four-year span of time. Credits in the music area must be validated by examination before they are accepted for transfer. This is to insure that the student is capable of successfully completing the remaining required courses.

MAXIMUM HOURS ACCEPTED IN TRANSFER

There is no limit on credits accepted from accredited colleges and universities. Students must have earned a 2.0 GPA from prior institutions to be eligible for transfer. Transfer credit will be applied as appropriate to satisfy general education courses, courses required by the major, and elective courses. To earn a Mansfield University degree, students must complete 50% of their major courses at Mansfield University and must complete a minimum of 25% of the total degree credit requirements at Mansfield University. Mansfield University will not accept in transfer more than 67 semester hours of coursework from two-year junior or community colleges. Once Mansfield University has accepted a student with an associate degree for transfer that student may not transfer additional semester hours of course work from two-year junior or community colleges.

READMISSION OF FORMER STUDENTS

Any degree-seeking student who has not been in attendance during the previous semester must apply for readmission to the university. Lifelong learners and in-service teachers not seeking a degree or program certification do not need to reapply.

An applicant for readmission should request an application from the Admissions Office. A statement about activities, including such information as employment, college course work completed, military service, etc. should accompany the application. The $25 application fee is waived for students readmitting to the university.

Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission. Before students are readmitted, they must clear all outstanding university-related debts.

ACADEMIC AMNESTY

The Academic Amnesty Policy is a means to allow certain students who have been separated from the University to return and not be unduly encumbered by their prior academic record. A student may be granted Academic Amnesty only once. Once granted, its conditions cannot be altered. Conditions for Academic Amnesty are as follows:

- A student must be separated from the University for at least five years before being eligible for Academic Amnesty.
- All grades for courses taken prior to the point at which Academic Amnesty is granted will remain on the academic transcript and academic history, but the cumulative QPA will be represented as "0.00".
- Only those courses that reflect a grade of C or better and were earned at Mansfield University prior to readmission will count as semester hours earned toward graduation. Courses with grades of C- or less will not count toward graduation.
- A student will be placed on probation for the initial returning semester.
- A student must achieve a minimum quality point average of 2.00 by the end of the second semester. Failure to achieve the 2.00 minimum QPA will result in permanent dismissal from Mansfield University.

Procedure:

- The student is evaluated for admission through the normal processing of the readmit application in the Admissions Office.
- The student is referred to an advisor for review of academic standing.
- The student make application for Academic Amnesty to the Provost.

PRINCIPLES OF ENROLLMENT MANAGEMENT

Mansfield University endorses enrollment management principles and reserves the right to limit the total number of freshmen, transfer, and readmission students within specific degree programs as well as the total entering class each entry date. Official entry dates occur in the summer, fall, and spring each academic year. You may be offered admission to a waiting list based upon these principles. Assignment of confirmed spaces is made after a comprehensive review of academic credentials.

SUMMER SCHOOL

Our Summer School program is designed to meet the needs of a variety of students. A wide range of educational opportunities include credit courses for undergraduates, lifelong learners, and graduate students as well as workshops, travel credit courses, and seminars in the liberal arts, teacher education, and other fields of study. Summer courses include traditional in-classroom experiences as well as on-line courses.

Summer sessions are open to all students who have earned a high school diploma or GED, but enrollment does not imply or guarantee admission or readmission to Mansfield University.

Continuing university students, including new students, who wish to accelerate their program of study will find both general education and other courses in a variety of fields of study. Students from other colleges and universities may take courses through Mansfield University. However, they are advised to first ensure that their home institution will transfer credits earned.

Teachers and graduate students will find courses in the summer program to serve a variety of needs. They may enroll to complete requirements for permanent certification, take refresher courses in their field of specialization, to earn certification in a new field, or to take academic coursework to meet ACT 48 requirements.

The Summer Session bulletin is usually available after March 1. You can visit our website (www.mansfield.edu) to view the Summer Session bulletin on-line.

CENTER FOR LIFELONG LEARNING

The Center for Lifelong Learning provides educational opportunities both on-campus and at a variety of locations off-campus. On-line learning opportunities for high school and non-traditional students, including employed adults and professionals, are provided. The Center for Lifelong Learning is responsible for off-campus undergraduate and graduate courses and programs including all distance education and on-line course offerings, the Adult Basic Education/GED programs, the Technology Outreach Center, the College Bound Program, and non-credit programs, including teleconferences, workshops, camps, and conferences.

LIFELONG LEARNERS

High school graduates or those who hold a General Education Development (GED) certificate may choose this alternative route to take course work through the university without formally applying to the university and without taking the SAT or ACT tests.

Approval to take course work as a lifelong learner does not imply or guarantee admission to the university or acceptance in a degree program, but it does offer flexible educational experiences for nontraditional students. This program enables individuals to enrich themselves, improve a particular skill for current or future employment, try college courses to see if they want to pursue a degree, or transfer credit to another institution.

Students may earn up to 30 credit hours, exclusive of development (090) course work, and then apply these credits toward a degree program at Mansfield University. A maximum of 11 credit hours may be scheduled during each academic semester of attendance.

The Center for Lifelong Learning strongly encourages students to meet with the Director of Credit Programs to make specific plans for course work. The director explains transfer credits if applicable and reviews curriculum requirements. Appointments may be scheduled by calling the Center for Lifelong Learning at (570) 662-4244 or (800) 661-3640. Visit our website at: http://cll.mnsfld.edu.

Lifelong learners are required to meet the university's minimum academic requirements. Students who fail to meet those requirements at the end of a semester may be administratively disqualified and denied future enrollment at the discretion of the provost or his designee.

Any student who is not a U.S. citizen must provide a current, valid visa and a TOEFL score (500 minimum) or demonstrate English proficiency.

DISTANCE EDUCATION

Mansfield University offers opportunities for learning in a variety of settings. Recognizing the unique needs of learners, we have developed and implemented both on-line courses and programs as well as videoconference courses that maintain educational quality.

VIDEOCONFERENCING

Mansfield University delivers select undergraduate and graduate course work, workshops, career exploration opportunities, in-service programs and other educational programming through distance education technologies. Our distance education classrooms are equipped with videoconferencing equipment, which provides simultaneous interaction between two or more sites and the transmission of voice, data, and video. The videoconferencing systems deliver high quality audio and video. Course work may be taken by students while in high school, by adults who plan to pursue a degree, by graduate students for in-service, graduate credits, or to meet ACT 48 requirements, and by individuals who are seeking innovative and creative course offerings for enrichment.

All academic course work offered through this technology meets academic departmental standards and earns Mansfield University credits. Full-time students who wish to engage in course work offered at a more convenient time and location may use it. Other technologies are used either as separate delivery systems or in conjunction with the videoconferencing technology. This technology enables students who are geographically remote to enroll in university courses and programs from accessible locations and at convenient times.

ON-LINE COURSES

Mansfield University also offers you the convenience and flexibility of taking on-line courses at the undergraduate and graduate level. These courses can be completed without leaving home and at your convenience. To learn more about course availability and to register for on-line courses, call the Center for Lifelong Learning at (800) 661-3640 or E-mail pboyce@mnsfld.edu. Students enrolling in these courses must have access to ISP (Internet Service Provider), E-mail, an Internet browser (Internet Explorer 5.01 or better), a computer (Pentium Processor preferred), and Windows (95 or better). All students are provided electronic library services, which include library and information CD-ROM databases and collections. For more information visit our website at http://cll.mnsfld.edu.

All students registered for an online course must visit the Center for Lifelong Learning's website for critical information, resources available, and directions relative to your responsibilities in taking a course online at Mansfield University. Website: cll.mnsfld.edu/onlineresp.htm.

COLLEGE BOUND PROGRAM

Our College Bound Program is for serious high school learners who know they will go to college, want to explore their potential for college work, or who want to study subjects not normally available in high school.

The College Bound Program provides opportunities on-campus, off-campus, and via distance education technologies for outstanding high school students to develop their academic potential by pursuing college course work. Students who participate in this program take liberal arts and/or science courses accepted at most colleges/universities in the U.S.

All academic courses meet departmental standards and earn Mansfield University credits. Students seeking approval to take course work through the College Bound Program must demonstrate potential for success at the college level.

Applicants must be recommended by their high school guidance counselor and demonstrate the ability to think critically and analytically. In recommending students for the College Bound Program, high school guidance counselors should use, but are not limited to the following guidelines: students who have pursued an academic curriculum in grades 9-12 and have demonstrated mastery of writing, mathematics, reading and study skills. College Bound applicants must also demonstrate maturity and social skills appropriate for success in college course work. Students who meet the requirements for the College Bound Program are approved to pursue course work under the category of a lifelong learner and are not admitted as matriculated students to the University.

An approved College Bound candidate is not typically eligible for financial aid. However, students approved to take course work as a College Bound Student have their application fee waived. College Bound students taking course work through distance education will have access to the latest videoconferencing technology. Students see and hear the professor live on a screen in their own high schools or local videoconferencing facility. This allows students to ask questions, take part in discussions, and participate with the professor and students in a Mansfield University classroom.

Students interested in the College Bound Program must submit a College Bound Course Registration/Application. You can get this application by writing to the Center for Lifelong Learning, 200 Memorial Hall, Mansfield University, Mansfield, PA 16933; by calling us at (570) 662-4244 or (800) 661-3640; or by sending a fax to (570) 662-4120.

AUDIT PROCEDURES FOR LIFELONG LEARNERS

All graduate and undergraduate (non-degree seeking) students interested in auditing a course (attending class, but receiving no grade or credits) must complete a registration form and audit card for the course work requested. Students may audit a course at the cost of $50 per course and with the permission of the course instructor and the Director of the Center for Lifelong Learning or her designee. The Center for Lifelong Learning has registration forms and audit cards and will process your audit request. Any questions should be directed to the Center for Lifelong Learning, Memorial Hall, Room 200, E-mail at pboyce@mnsfld.edu, or (800) 661-3640.

Students wanting an ID card for library use must purchase a courtesy card through the library. Students who want to use the fitness center must pay the community fee through the Fitness & Recreation Center. Admitted students who are currently attending Mansfield University should process their audit request through the Academic Records Office, South Hall.

SENIOR CITIZENS PROGRAM

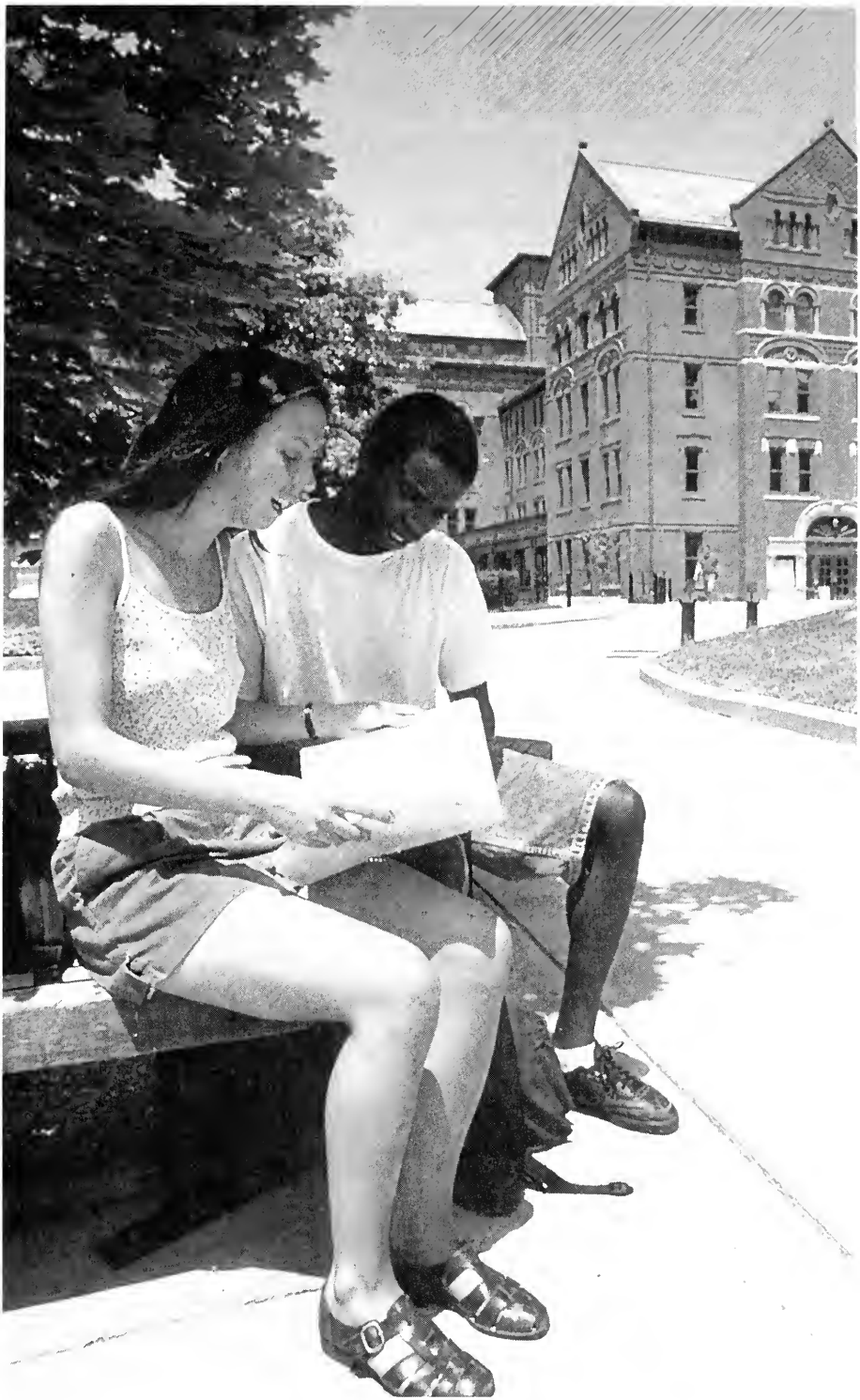
Mansfield University offers a tuition waiver to senior citizens who are receiving Social Security retirement and are at least 62 years of age (or minimum age as defined by the Federal Social Security Administration). Senior citizens may register for courses offered in the fall, spring, and summer sessions. They may either audit the class or take the class for credit. Interested students complete a Senior Citizen Tuition Waiver form at the Revenue Office requiring proof of benefits (copy of monthly check or statement from the Social Security Office). Since only tuition is waived, students are charged the miscellaneous fees associated with the number of credits requested. For more information, contact the Center for Lifelong Learning at (570) 662-4244 or (800) 661-3640.

TECHNOLOGY OUTREACH CENTER

The Technology Outreach Center offers computer and technology programs and training services for businesses and organizations. Customized training workshops are offered to develop new skills and accommodate the individual needs of area businesses, K-12 schools and local community members. Mansfield University is a WEDnet provider and assists qualified businesses with PA's Guaranteed Free Training Program. For further information, contact Kevin Green, 570-662-4808 or email: kgreen@mnsfld.edu

MUNICIPAL POLICE TRAINING ACADEMY

The Pennsylvania Municipal Officers' Education and Training Commission certifies the Mansfield University Municipal Police Officer's Training School. The purpose of the school is to provide each participant with the professional skills and knowledge necessary to become a municipal police officer in the state of Pennsylvania. The completion of the school does not imply guaranteed employment.
For more information about this program contact the Center for Lifelong Learning at (570) 662-4851/4974 or (800) 661-3640 or visit the website at http://cll.mnsfld.edu.



III. EXPENSES

This information is based on student charges for the 2001/2002 academic year. Tuition and fees for 2002/2003 are finalized after this catalog goes to press. Therefore, this information is subject to change without notice. We include this information so students and their families can estimate expenses.

ADMISSION FEES (NON-REFUNDABLE)

Application Fee $25

Students applying for admission or readmission pay this fee when submitting their application.

Advance Deposit $200

Required upon acceptance of the offer of admission. It is transferable to a revised admission date within one year upon the approval of the Director of Admissions.

TUITION (PER SEMESTER)

	Residents of Pennsylvania	Residents of Other States	*Good Neighbor
FULL-TIME UNDERGRADUATE 12-18 credits	$2008	$5020	$3012
FULL-TIME GRADUATE 9-15 credits	$2300	$3777	
PART-TIME UNDERGRADUATE under 12 credits over 18 credits	$167 per credit	$418 per credit	$251 per credit
PART-TIME GRADUATE under 9 credits over 15 credits	$256 per credit	$420 per credit	

Note: Students taking a combination of undergraduate & graduate credits are charged at the course level and will not be combined for the full-time basic fee rate. Undergraduate tuition costs are reduced for graduate students who qualify as a Good Neighbor.

On-Line Course Tuition Rate:

On-line courses (section 190-199) have a discounted non-resident tuition rate of $237 per credit for undergraduate courses and $345 per credit for graduate courses.

Audit fee:

Part-time, non-degree seeking students and residents of the region may audit a course for $50 with the permission of the course instructor and the Director of the Center for Lifelong Learning or her designee.

Senior Citizen Tuition Waiver: Residents of the region aged 62 or over may enroll in university courses with no tuition charge.

Summer session tuition is charged at the per credit rate.

HOUSING/FOOD SERVICE FEES (per semester)

RESIDENCE HALL STUDENTS	
Double Room	$ 1397
Private Room	$ 2095.50
Mini-Single	$ 1746.25
Double plus 19 meals	$ 2276
Double plus 14 meals	$ 2271

Requests for a private room are processed by the Housing Office, 120 Pinecrest, and are granted on a space available basis. Payment does not guarantee a private room.

COMMUTER AND OFF-CAMPUS STUDENTS	
19 meals ($ 50 flex)	$879
14 meals ($100 flex)	$874
10 meals ($ 50 flex)	$713
5 meals ($ 50 flex)	$503
Flex Only	$50

Flex dollars are built in to each meal plan and may be used as cash at any dining location. You may buy additional flex dollars in increments of $25. Unused flex dollars are carried over from fall to spring semester. Unused flex dollars at the close of the spring semester are forfeited.

Room rates include telephone service (does not include toll charges). Linens and pillows are not provided.

All residence hall students must use dining services. Dining fees are assessed regardless of whether or not dining services are actually used.

All new residence hall students are automatically charged with the 14 meal plan. Requests to change to the 19 meal plan must be made by August 1. Changes to original dining selections are not permitted after the semester begins.

Dining exemption forms for medical reasons are available at the Office of the Vice President for Student Affairs and must be initiated before the beginning of a semester. Dining charges are assessed until approval for an exemption is granted.

All degree-seeking students are required to live on campus unless they are commuting from home. Approval to move out of the residence halls must be obtained from the Director of Residence Life, 120 Pinecrest.

COMMUNITY BUILDING FEE

This fee is paid by all students to support the operating costs and debt service for the Student Center.

UNDERGRADUATE	
1 to 6 credits	$18.25
7 to 9 credits	$36.50
10 or more credits	$73
GRADUATE	
1 to 6 credits	$18.25
7 to 8 credits	$36.50
9 or more credits	$73

EDUCATION FEE

This fee is paid by all students to support high-cost programs, labs, and academic equipment.

Full-time Undergraduate	$200
*Part-time per credit	$ 17/cr
Full-time Graduate	$230
*Part-time per credit	$ 26/cr

*Per credit rate not to exceed full-time rate per semester.

HEALTH FEE

Primary medical care is provided to registered full-time and part-time students while the university is in session.

Undergraduate	
7 to 11 credits	$14
12 credits and over	$28
Graduate (optional)	
7-8 credits	$14
9 credits and over	$28

FITNESS CENTER FEE

All undergraduate, degree-seeking students are assessed this fee to support the debt service and operating costs of the fitness center.

Undergraduate		Graduate (optional)	
1 to 6 credits	$31	1 to 6 credits	$31
7 to 11 credits	$62	7 to 8 credits	$62
12 credits and over	$130	9 credits & over	$124

STUDENT ACTIVITY FEE

This fee was established by the Student Government Association to support student activities.

Undergraduate		Graduate (optional)	
7 to 11 credits	$65	6 to 8 credits	$65
12 credits and over	$130	9 credits & over	$130

OTHER FEES

DEFERRED PAYMENT FEE

Students may defer payment up to one half of the balance due for six weeks after the first day of the semester. The balance due is defined as the total fees for the current semester, minus approved financial aid. Non-payment of the full balance due incurs the $25 fee.

RETURNED CHECK FEE

This fee is charged for each check returned by the bank. $25

CERTIFICATION FEE

Teaching certification applications are processed by the Academic Records Office. $15
(Money Order only)

CREDIT BY EXAMINATION FEE (per exam)

One third of the undergraduate fee per credit must be paid and approval received from the Provost before taking the examination. (per exam)

PARKING DECAL FEE

This fee is for a permit valid from September through August.

Commuter Student	$25
Resident Student	$50

TRANSCRIPT FEE

There is no charge for transcripts. All delinquent financial obligations must be cleared prior to the release of transcripts.

EXAM/TEST FEES

Contact Career Development and Placement Services for information about the following tests and fees: Miller Analogies Test; National Teachers Exam (NTE); Graduate Record Exam (GRE); Scholastic Aptitude Test (SAT). Information regarding the College Level Examination Program (CLEP) may be obtained from the Admissions Office.

REFUNDS & ADJUSTMENTS OF CHARGES

The following information is subject to change without notice.

WITHDRAWAL FROM THE UNIVERSITY (OR ALL COURSEWORK)

Tuition, housing, and miscellaneous fees are adjusted for all students according to the refund schedule. Dining adjustments are pro-rated on a weekly basis.

First day of class	100%
First week	90%
Second week	80%
Third week	70%
Fourth week	60%
Fifth week	50%
Sixth week	No Refund

Tuition and miscellaneous fees will be adjusted at 100% through the drop period. There is no fee adjustment for course withdrawals. All requests for refunds should be in writing to the Revenue Office.

FINANCIAL OBLIGATION

Failure to meet your financial obligation by the due dates may result in classes cancelled, future registrations blocked, and transcripts withheld. The minimum amount required to confirm your registration is your total charge, LESS financial aid, DIVIDED by two, PLUS any beginning balance. Payment of the minimum amount due will allow you to defer the remaining balance due for six weeks. Failure to make full payment will automatically incur a deferred payment fee of $25.

DELINQUENT ACCOUNTS

You are not permitted to register for course work or to receive a diploma or transcripts until all overdue accounts have been paid. Delinquent accounts may be assessed collection costs for in-house or collection agency assignment. Students requesting transcripts are encouraged to pay any outstanding balance by money order or cashiers check to avoid a two-week clearing period on personal checks.

RESIDENCY

As a student, you are classified as a Pennsylvania resident for tuition purposes if you have a Pennsylvania domicile.

Domicile is the place where you intend to and do permanently reside. Because the determination of whether you intend to reside indefinitely in Pennsylvania is subjective, documentary evidence, statements from disinterested persons, and the presumptions set forth below are considered:

a) Continuous residence in Pennsylvania for a period of 12 months prior to registration as a student at an institution of higher education in Pennsylvania creates a presumption of domicile. A student is presumed not to be a domiciliary if he/she has resided for a shorter period before attending an institution of higher education, but the student may rebut this presumption by clear and convincing evidence.

b) Students who are not United States citizens and have nonimmigrant visas or lack a visa are presumed not to be domiciled in Pennsylvania, but they may rebut this presumption by clear and convincing evidence.

c) A minor is presumed to have the domicile of his or her parents or guardian. The age of majority for establishing a domicile for tuition purposes is 22. However, a minor may prove financial emancipation and thereby prove Pennsylvania domicile through clear and convincing evidence.

d) A United States government employee or a member of the armed forces who was domiciled in Pennsylvania immediately preceding entry into government service and who has continuously maintained Pennsylvania as his or her declared legal residence shall be presumed to have a Pennsylvania domicile. Nonresidents stationed in Pennsylvania for military service shall be deemed Pennsylvania domiciliaries.

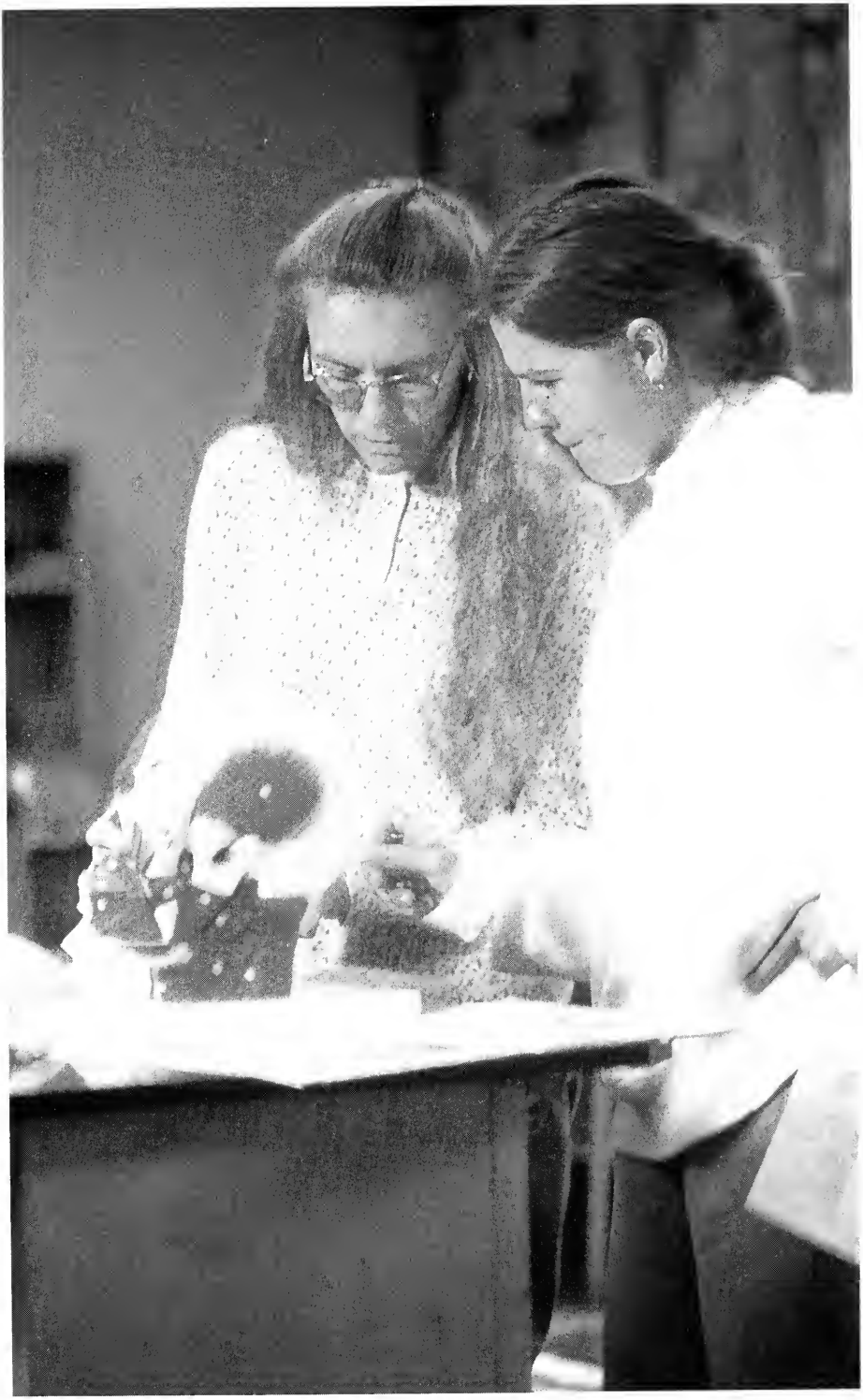
e) A student receiving a scholarship, loan or grant, dependent upon maintaining domicile in a state other than Pennsylvania is presumed to be domiciled in the state from which he/she is receiving financial aid.

A student may challenge his/her residence classification by submitting a written appeal to the controller. If the student is not satisfied, the decision may be appealed in writing to the Office of the Chancellor, State System of Higher Education, within 30 days. The decision of the chancellor is considered final. The effective date of any reclassification resulting from the students challenge is determined by the controller based on when the petition was filed. A student who changes domicile from Pennsylvania to another state must promptly give written notice to the University.

New York residents of the following 16 counties are considered "Good Neighbors" and are eligible for a reduced undergraduate tuition rate: Broome, Cayuga, Chemung, Cortland, Livingston, Monroe, Onondaga, Ontario, Oswego, Schuyler, Seneca, Steuben, Tompkins, Tioga, Wayne, and Yates.

New York residency requirements follow the same basic criteria used in determining PA residency.

The Board of Governors approved the waiver of the tuition differential for non-resident dependent children of Pennsylvanians officially listed by the U.S. Defense Department as missing in action or killed in action in the Vietnam War.



IV. FINANCIAL AID

The Financial Planning and Financial Aid Offices provide information and assist students and their families in meeting college expenses. We inform students of application procedures and deadlines, types of aid available, eligibility requirements, and other pertinent data.

As a state university, our tuition is substantially lower than many other colleges. However, the combination of college expenses still requires financial aid for many students. While we help in any way we can, the basic financial responsibility for a college education continues to rest with the student and his/her family.

Matriculation at Mansfield University is by semester. As a student you are expected to meet the expenses of the upcoming term without assistance unless such aid has been previously arranged and confirmed. Mansfield University participates in the major federal and state financial aid programs. There are three forms of aid: grants, loans, and college work study (part-time employment). Grants include the Federal Pell grants, the state PHEAA grants, the Federal Supplemental Educational Opportunity Grant, as well as institutional and private grants. Loans include the Federal Stafford Loans, the Federal Perkins loans, and the Federal Plus Loan for parents of undergraduate students. In addition, students may borrow additional funds should they wish to do so through the Alternative Loan Program. College work-study (part-time jobs) is funded by federal and institutional dollars and is awarded to students with demonstrated financial need. Non-need based institutional work-study is also awarded.

We emphasize the following points:

1. File for financial aid immediately upon confirmed admission to Mansfield University.
2. To apply for aid, file the Free Application For Student Aid (FAFSA) and the institutional application.
3. The important deadlines for financial aid are April 1 for new students and currently enrolled students. PHEAA has a deadline date of May 1 for the state grant program.
4. Identify Mansfield University (003324) as an institution of choice on the FAFSA application.
5. You are considered a sophomore with 31-60 credits, a junior with 61-90 credits and a senior with 91 or more credits. This is important for Federal Stafford Loan purposes.

Students and parents may call the Financial Aid Office at (570) 662-4129 with questions at any time. We are here to help you. In addition, new students may want to contact the Financial Planning Office regarding scholarships or for assistance with the FAFSA at (570) 662-4878.

SATISFACTORY ACADEMIC PROGRESS AT MANSFIELD UNIVERSITY

To continue receiving financial aid at Mansfield University, you are required to make satisfactory academic progress toward the educational objective that you have chosen. If you do not maintain satisfactory academic progress, you will be ineligible for further financial assistance — at least until you are making satisfactory academic progress once again. Financial assistance includes: Federal Pell grant, FSEOG grant, Federal Work-Study, PHEAA grant, Federal Perkins loans, Federal Stafford subsidized and unsubsidized loans, Federal PLUS loans, and other grant, scholarship, and loan programs that require satisfactory academic progress.

There are <u>two</u> standards you must meet to maintain satisfactory academic progress: a quantitative standard and a qualitative standard. Each standard is explained in the next section. It is very important that you understand and meet these standards, otherwise you could lose some or all of your financial aid.

Quantitative Standard

At Mansfield University, the quantitative standard measures the number of credit hours you attempt (including courses you registered for but did not complete, courses you withdrew from, courses you failed, or courses you otherwise did not complete) versus the number of credit hours successfully completed (courses for which you received a passing grade). This quantitative standard of credits attempted and credits completed is checked for all students (who attempt at least six semester hours) at the end of each spring semester for the previous three semesters: the spring semester just completed, the prior fall and prior summer semesters.

Courses evaluated as complete and which earn credit toward this quantitative standard are graded: A through D-, P (pass), or S (satisfactory). The credits earned in such courses count toward the quantitative standard as long as they are courses for which the student has not already received credit. For example, replacing a D grade (and 3 credits) with a C+ grade improves your overall GPA, but it does not add a new three credits to your total of credits earned.

Courses which do not earn credit toward the quantitative standard are: F, U (unsatisfactory), W (withdraw), I (incomplete), or courses you have already received credit for previously.

At the end of each spring, you must have earned the minimum number of new credits based upon your enrollment status in order to maintain your financial aid eligibility. The table below shows the number of credits required for each enrollment status.

Your enrollment status can be any one of the following:

Status	Code	Credits enrolled Per Semester	Credits Completed Per Semester	Annual Credits to be completed
Full-time	FT	12 credits or more	12	24
Three-quarter-time	QT	9 – 11 credits	9	18
Half-time	HT	6 – 8 credits	6	12
Less than half-time	LH	3 - 5 credits	3	6
Not enrolled	NE	0 credits		

Please note that quantitative standards are reviewed on a semester status based on the number of attempted credits. It is important to understand the enrollment status, i.e. full-time or part-time to determine the number of credits that must be completed. For example if you were enrolled as follows:

		Credits enrolled	Credits required to be completed
Fall	Three-quarter-time	11	9
Spring	Full-time	15	12
Minimum number of credits completed to meet Quantitative standards			21

Quantitative standards are reviewed in May of each year for the previous fall and spring semester. Summer semesters will be reviewed on an individual student basis.

If you have not completed the minimum number of credits by the end of spring, you must make up the number you are short (without aid) during the summer semester to be eligible again for aid in the fall.

If you are making up credits during the summer, you must notify the Director of Financial Aid by June 1 and provide the following information:

1. The name of the course (s) in which you have enrolled.
2. The number of credits you are attempting.
3. The college at which you will be taking the course(s).
4. A financial aid transcript showing no aid received for that semester.

The Financial Aid Office will then proceed on the assumption that you will pass the necessary courses, earn the required number of credits, be eligible for aid in the fall, and the office will process your award package accordingly for the coming fall and spring semesters. Upon successful completion of the course(s), you must present an official transcript of your grade(s) before the fall semester begins or your aid will be canceled.

If you do not follow the steps above by June 1, or fail to present a transcript of your passing grades, or otherwise fail to make up the necessary credits in the summer, you will not be eligible for financial assistance in the fall or any semester thereafter until the necessary credits have been made up. This standard applies regardless of the amount of time you have been out of school.

Qualitative Standards

Unlike the quantitative standard which is reviewed once a year (after the spring semester), the qualitative standard is monitored each semester by the Academic Records Office. The financial aid qualitative standard is directly related to your Quality Point Average (QPA) and is consistent with Mansfield University's Minimum Academic Standards. You are required to earn a QPA at or above the following minimum standards.

Credits Attempted (including transfer hours)	Minimum QPA required
0-15	1.20
16-30	1.40
31-45	1.60
46-60	1.80
61+	2.00

If your QPA falls below 2.00, you are placed on academic probation until your QPA is at least 2.00.

If your QPA is below the minimum QPA at the end of any semester, you will be dismissed from the University and become ineligible for financial aid unless you are reinstated through one of two processes:

1. After a one year interval or
2. By appeal to the Academic Standards Review Board (ASRB)

If you are reinstated by either of these methods, your qualitative standards are considered to have been waived by the Financial Aid Office. However, if your quantitative standards have not been met, you still must complete the necessary hours without financial assistance in a subsequent semester before you can receive financial aid again (regardless of qualitative reinstatement).

Maximum Time Frame to Complete Your Program

You are allowed 150% of the published length of your educational program for completion. This applies regardless of how many times you change majors. This generally means a maximum of 180-192 hours attempted for most 4-year bachelor degree programs (120-128 hours x 150%) and 90-96 hours attempted for most 2-year associate degree programs (60-64 hours x 150%). Programs with different number of hours are calculated in similar ways.

Waiver and Reinstatement

For quantitative measures, you can be reinstated on your own efforts by making up the number of credits you are short without the assistance of financial aid. You can earn these needed credits at Mansfield University or any other accredited postsecondary institution. This is the preferred manner of reinstatement. If extenuating circumstances

led to your failure to complete the necessary quantitative requirements, you may appeal in writing for a waiver of the quantitative standards to the Director of Financial Aid and the PHEAA grant division (if applicable). You are expected to appeal to both and ordinarily the Financial Aid Office will attempt to work with the PHEAA grant division (if applicable).

For qualitative measures, the Financial Aid Office follows University policy, and the decisions of the Academic Standards Review Board (ASRB) and the Office of the Provost with regard to reinstatements. If a dismissal is appealed and subsequent re-admittance to the university is granted, your qualitative standards are considered to have been waived for mitigating circumstances.

In addition to appealing in writing and providing adequate documentation, you must meet with the Director of Financial Aid to discuss any waivers of satisfactory progress.

Additional PHEAA Grant Policies

In addition to the policies stated above, the Pennsylvania Higher Education Assistance Agency (PHEAA) lists the following policies relating to Satisfactory Academic Progress for the PHEAA State grant program:

1. PA residents are normally limited to 8 full-time equivalent semesters of PHEAA grant eligibility (including summer grants), except for bonafide 5-year programs.
2. To be eligible for a PHEAA grant, the quantitative standards are applied only for credits for which aid was received.
3. Repeat courses: If you repeat a course passed in an earlier term, it may be counted to raise your enrollment status (to full-time or half-time), but it will not be counted in satisfactory progress toward the minimum quantitative standard for yearly evaluation purposes.

The quantitative and qualitative standards that must be met to maintain financial aid eligibility can be confusing, especially to new students. Feel free to visit or call the Financial Aid Office for assistance. (107 South Hall, 570-662-4129)

VETERANS BENEFITS

Eligible students may qualify for Veterans Educational Benefits as well as financial aid. The application procedure for financial aid is the same as that outlined for any regular student. Students may qualify for Veterans Educational Benefits through several different programs run by the Veterans Administration. These forms are available through the Veterans Certifying Official, Room 104, Alumni Hall. In addition, PA Veterans who are honorably discharged may be eligible for a PHEAA Grant for up to 80% of their annual tuition provided they apply by May 1 each year.

FEDERAL GRANT PROGRAMS

Federal Pell Grants

The Federal Pell Grant is for students pursuing their first undergraduate degree. The award amounts can vary depending on eligibility and are subject to change annually. For the 2002-2003 academic year awards range from $400 to $4000 annually. To apply, complete a Free Application for Federal Student Aid (FAFSA).

Federal Supplemental Educational Opportunity Grant (FSEOG)

The Federal Supplemental Educational Opportunity Grant (FSEOG) is for undergraduate students with exceptional financial need and you must qualify for a Federal Pell Grant. FSEOG grants at Mansfield University normally range from $400 - $1000 per academic year. Funding is very limited in this program, therefore, the Free Application for Federal Student Aid (FAFSA) must be received and processed by the Federal Student Aid Programs by April 1, 2002 to be considered for this grant.

STATE GRANT PROGRAMS

The Pennsylvania Higher Education Assistance Agency (PHEAA) provides State Grants (PHEAA Grants) to help Pennsylvania residents with financial need attend approved institutions of higher education. PHEAA Grants are available to both full and part-time students.

Grant recipients are expected to work during the summer to assist in meeting expenses and parents are expected to contribute according to their ability. Grant size depends upon educational expenses, family size, and family resources.

PHEAA Grants are subject to annual review and may change from year-to-year. Renewal depends upon satisfactory academic standing, continued financial need, and the availability of funds. Applications for PHEAA (Free Application for Federal Student Aid) may be obtained from high school guidance officers, the Financial Planning Office or the Financial Aid Office. The application deadline is May 1.

STUDENT EMPLOYMENT PROGRAMS

Federal College Work-Study is a federally funded program awarded to students who demonstrate a financial need. It pays minimum wage, and a student cannot work more than 20 hours per week. In fact, most students work an average of 7 – 10 hours per week. The employment opportunities on campus include administrative areas, student center, athletics, the library, academic areas, security, laboratory assistant, etc. To apply, complete a FAFSA. The submitted FAFSA must be received by the Federal Processing Center by April 1, 2002.

Institutional Work-Study is a Mansfield University funded program. It differs from the Federal College Work-Study Program in that a student does not have to show a demonstrated financial need in order to work. The pay rate, once again, is minimum wage and students cannot exceed 20 hours of work a week. To apply, complete a Free Application for Federal Student Aid (FAFSA). The submitted FAFSA must be received by the Federal Processing Center by April 1, 2002.

LOAN PROGRAMS

Federal Perkins Loans. This program is for students who are enrolled at least half time (six credits) and need a loan to meet their educational expenses.

Maximum loans are $3,000 for undergraduate students and $5,000 per year for graduate students. In an effort to extend the funds to assist as many students as possible the average Perkins Loan is in the $1,000-$2,000 range per academic year. Repayment begins nine months after leaving school with up to 10 years to repay. During the repayment period, five percent interest is charged on the unpaid balance of the principle. To apply, complete a Free Application for Federal Student Aid (FAFSA). The submitted FAFSA must be received by the Federal Processing Center by April 1, 2002.

Federal Stafford Loan Subsidized. These funds are made available by participating lenders to students who demonstrate financial need for the loan. Mansfield University determines your eligibility after careful review of the Free Application for Federal Student Aid (FAFSA).

A new electronic loan process was implemented at Mansfield University to expedite this process. To apply: submit a "Federal Stafford Loan Request Form". Your request will be transmitted electronically and a Master Promissory Note will be mailed to you if you are a first time borrower. The Master Promissory Note is intended to be valid for 10 years; you should only be required to sign one note.

To be eligible, you must be enrolled at least half-time (six credits) and meet financial need requirements. The maximum loan for an undergraduate ranges from $2,625 to

$5,500 a year. Total loans may not exceed $23,000 for dependent undergraduates and $46,000 for independent undergraduates. The variable interest rate may not exceed 8.25%.

Repayment normally begins six months after leaving school with up to 10 years to repay. The size of repayments depends upon the size of the debt and ability to pay. In most cases repayment must be at least $600 a year unless circumstances agreed upon by the lending institution warrant a lesser amount.

Federal Stafford Loan Unsubsidized. This loan is similar to the Federal Stafford Loan program; however, you do not need to have a demonstrated financial need and interest must be paid quarterly while the student is in school.

Federal Parent Loan for Undergraduate Students (PLUS). This program allows parents to borrow from a participating lender for their undergraduate child. A parent can borrow the difference between the cost of education minus any other financial aid received.

This process will be electronic for the 2002-2003 academic year. To request a PLUS Loan, please contact the Financial Aid Office for a "Federal Parent (PLUS) Loan Request Form". Mansfield University will transmit the loan data and the parent borrower will receive a pre-printed application for signature.

The parent usually begins repayment of interest and principle within 60 days of loan disbursement. The variable interest rate may not exceed 9.0%.

Additional loan options. Private loans for educational expenses are also available. Each program offers competitive interest rates, flexible repayment schedules and differing co-signer requirements. If you are interested in a Private Alternative loan, you can contact the lender directly or the Financial Aid Office for additional information, a comparison chart and application materials.

FINANCIAL AID AWARDS AND GRANTS

Approved Title IV aid is paid on account approximately six weeks from the first day of the semester. Aid awarded after the first day will be paid monthly thereafter. Loan checks are credited upon endorsement or when funds are electronically received.

REFUND ALLOCATION POLICY

The University must return Title IV aid to the various programs in the following order when a student withdraws from the University after having received financial aid in excess of adjusted charges.

1) Federal Unsubsidized Stafford Loan
2) Federal Subsidized Stafford Loan
3) Federal Perkins Loan
4) Federal PLUS Loan
5) Federal Pell Grant
6) Federal SEOG

Refunds allocated to a particular program will not exceed the aid originally awarded to a student in that particular program.

A release form must be signed to authorize the University to apply Title IV funds to charges beyond tuition and fees. The release may be rescinded at any time by submitting a written request to the Student Accounts Office. Rescinded authorizations are not retroactive.

Mansfield University Scholarships and Awards

Scholarships

Entering students: All entering students who are regularly admitted to the university are automatically placed into the scholarship review process. A special scholarship application is not required. Students are reviewed on a rolling basis based on acceptance to Mansfield University.

Returning students: Scholarship deadline is March 15th, and a scholarship application is available through the Office of Financial Planning, 104 Alumni Hall.

The following scholarship opportunities are available for both entering and returning students. Unless otherwise noted, all scholarships are awarded through the Scholarship Committee. Some of the awards may not be given on an annual basis, and these are noted in the description of each scholarship.

AFSCME Scholarship

This scholarship is presented to a full-time student who has completed 12 credit hours and has achieved a minimum cumulative grade point average of 2.5 on a 4.0 scale. Financial need is also a consideration. Preference is given to a local 2363 bargaining unit employee, dependent or spouse. The award is $1000 per academic year, non-renewable. The recipient is selected by the Scholarship Committee.

All Residence Hall Council Scholarship

This scholarship is presented to upperclass students who reside on campus and demonstrate academic achievement and involvement in residence hall activities. The amount of each award is $1000 for the academic year, non-renewable. The recipient is selected by the Scholarship Committee.

APSCUF Book Scholarship

This scholarship is presented to a freshman who demonstrates academic achievement. It is a $500 award given as a credit at the University Bookstore, non-renewable. The recipient is selected by the Scholarship Committee.

APSCUF Freshman Scholarship

One scholarship is presented to a union member or child of a union member, based on academics and strong union affiliation. The other scholarships are open to all entering freshmen and are based on academic achievement. Both scholarships are $1000, non-renewable, and the recipients are selected by the Scholarship Committee.

Joseph C. and Lois E. Weir Ashkar Scholarship

This scholarship is presented to a student pursuing a degree in secondary teacher education and has completed registration for student teaching for either the fall or spring of the following year. The recipient must be a undergraduate with senior standing at the time of the award, have a minimum 3.2 grade point average in major, exhibit leadership qualities and participate in campus or community organizations, and write a position paper on the importance of character in the committed teacher. The Education and Special Education Department will select the recipient and forward the choice to the Scholarship Committee.

Shirley Sandrock Barnhardt and Robert A. Barnhardt Scholarship
This scholarship is presented to an entering freshman majoring in secondary education, first preference given to math and English. The recipient must be in the top fifth of their high school graduating class, obtain a minimum SAT score of 1200, and participate in scholastic and community organizations along with leadership potential. The scholarship is $1,125 and may be renewed if a 3.0 GPA is maintained. The Education Department Scholarship Committee selects the recipient.

Rhoda Bartell Music Scholarship
This scholarship is presented to an entering freshman with a double reed major. The student must be full-time and maintain a 2.5 cumulative grade point average on a 4.0 scale. This is a $1000 award, non-renewable. The recipient is selected by the Music Department Scholarship Committee upon the recommendation of the double-reed professor.

Baynes String Award Scholarship
This scholarship is presented to an outstanding string student chosen by the string faculty. This award is $500 and is renewable.

Mary Blair Scholarship
This scholarship is a four-year award for an incoming freshman. The scholarship is awarded once every four years, and two scholarships are awarded each time. General scholarship guidelines are used to select recipients. The amount of this award is $1,150. The recipient is selected by the Scholarship Committee.

Blossburg National Bank Scholarship
This scholarship is presented to freshmen students who attended North Penn High School. The scholarship recipients are recommended by teachers at North Penn High School and forwarded to the Scholarship Committee for final approval. The scholarships may be renewed for each of the student's four college years. The amount of this award is determined on an annual basis.

Board of Governors Scholarship
The Board of Governors Scholarships were created by the State System of Higher Education. A number of awards for Pennsylvania residents granting a waiver of tuition are awarded after all other forms of aid have been received for the academic year. These scholarships may be renewed for three years if the student maintains the required grade point average. The Board of Governors Scholarship guidelines are used to select recipients.

Board of Governors Priority Program
A number of full and partial tuition waivers for Pennsylvania residents with at least an SAT score of 1000 and a class rank in the top 30%. Priority is given to students in the science/technology and math disciplines. The waiver is renewable by maintaining a 2.5 grade point average.

Dr. Margaretta Bone Scholarship
This scholarship is presented to freshmen students who are majoring in elementary education with an area of concentration in the humanities or English. Academic ability, leadership, and service involvement are considered. The recipient must write an essay and obtain two letters of recommendation. The scholarship may be renewable for

three years if the recipient maintains a 3.0 cumulative grade point average. Financial need is also considered. The amount of this award is $1000 per academic year.

Bob Bridgman Scholarship
This scholarship is presented to an entering freshman who is in the 25 percent of his/her senior high school class and has an SAT score of 1000. The recipient must demonstrate the highest traits of leadership, citizenship and character, and show evidence of providing service to others and/or animals and a willingness and desire to continue doing so in the future. The $1,100 award is selected by the Scholarship Committee and may be renewed if the recipient maintains a 3.0 GPA and remains a full-time student.

H.W. Colegrove Scholarship
This scholarship is awarded to female freshmen students who exhibit strong academic background and are residents of Tioga County, PA. The amount of the award is $1000 and renewable for each of the student's four years provided a 2.0 grade point average is maintained. The recipient is selected by the Scholarship Committee.

College Community Service, Inc. Book Scholarship
This scholarship is presented to full-time, upperclass students who maintain a 2.8 cumulative grade point average, are involved in extra-curricular activities, and have financial need. A varying number of $250 scholarships are provided in the form of credit for books at the bookstore, and selection is made by the Scholarship Committee.

Stanley D. Conklin Scholarships for Nurses
A renewable scholarship for up to four years enrollment. The amount of the awards are $2000 and are made possible through the generosity of Dr. Conklin who was a highly respected Guthrie Healthcare physician. A varying number of awards will be available for freshman nursing students each year. Candidates must have scored at least 1000 on their SAT test and be in the top two fifths of their graduating class. A grade point average of 2.7 is required for renewal and recipients are determined by the Scholarship Committee.

Albert Crispell Scholarship
This scholarship is presented to a student with senior status who is majoring in elementary education. Preference is first given to residents of Bucks, Luzerne or Wyoming counties. The recipient should display the qualities of a successful educator as determined by the faculty. The scholarship is to offset expenses for books and educational supplies.
This is a $425 award paid directly to the Campus Bookstore to help offset book and supply expenses, non-renewable.

Citizens & Northern Bank Scholarship
This scholarship is presented to a freshman student who exhibits strong academic background and resides in the service region of Citizens & Northern Bank. Preference is given to a student majoring in business administration or business program. This is a $1,500 award per academic year, non-renewable.

Class of 1935 Round Robin
This scholarship is presented to an entering freshman who is in the top twenty-five percent of their senior high school class, obtains a minimum SAT score of 1000 and

demonstrates the highest traits of leadership, citizenship and character. Special consideration should be given to students who, in the opinion of the Scholarship Committee, have not reached their full potential during their high school years. The amount of the award is $1,300 and is renewable if the recipient maintains a 2.5 grade point average.

Darrin-Dye Scholarship
This scholarship is presented to an entering freshman majoring in music. Recipients are selected based on talent and have an SAT score of 900 or more. This award is $500 per academic year, non-renewable. The selection is made by the Music Department Scholarship Committee.

Hartley B. Dean Scholarship
This scholarship is presented to entering freshmen who have achieved academic excellence and exhibited financial need. Class rank, SAT scores, and involvement in extracurricular activities are taken into consideration. This scholarship is renewable if a minimum 2.0 cumulative grade point average is achieved. The amount of the award is $1000. General scholarship guidelines are used to implement the awards. The number of awards may vary from year to year and selection is made by the Scholarship Committee.

David J. Dick Memorial Award
This scholarship is presented to an outstanding junior or senior of conducting or vocal performance. The amount of the award is $1000, non-renewable. Selection is made by the Music Department Scholarship Committee.

Howard R. and Margaret Doud Scholarship
This scholarship is presented to a freshman music major. To be considered for any additional awards, a 3.0 cumulative grade point average must be maintained. Selection is made by the Music Department Scholarship Committee. Scholarship is be given once every four years.

Grace S. Evans Scholarship
This scholarship is presented to an entering freshman who demonstrates academic achievement. The amount of this award is $500 per academic year, non-renewable. Selection is made by the Scholarship Committee.

Evans Sabo Award
Nancy Evans Sabo was a talented young teacher and, like many members of her family, a graduate and friend of Mansfield University. In her memory her family gives an award of $200 to the graduating secondary education student with the highest grade point average as recorded the semester prior to student teaching.

Arlyne M. Garrity Communications and Theatre Faculty Scholarship
This scholarship is presented to an upperclass student who is majoring in Communications or Theatre and has earned a minimum of 32 credits. There are two $500 non-renewable scholarships and a committee from the Communications and Theatre Department will make recommendations to the Scholarship Committee.

Oliver and Louise George Scholarship
This scholarship is presented to a student based on need and academic standing with preference given to chemistry and science majors. A freshman recipient must have an

SAT score of 1,000 or more. Upperclass students must attain a 2.5 GPA and a 2.5 in sciences. Non-renewable. Students may reappy every year. The award is $200 per year and shall be paid directly to the student. Recipient selected by the Scholarship Committee.

Geography and Geology Scholarship
This scholarship is presented to a student majoring within the Geography and Geology Department. An entering freshman must have a minimum SAT score of 1030 or be in the top 30% of their high school graduating class. An upperclassman must have an average or above average grade point average. The scholarship award is $650.

James York Glimm Scholarship in English
This scholarship is presented to an entering freshman enrolled in an English B.A. or B.S.E. curriculum and shows potential for developing as a writer and student of literature. The recipient must be in the top two fifths of his or her high school graduating class. Candidates must submit an analytic essay of a short poem or short piece of fiction from several choices supplied by the Languages and Literature Department Scholarship Committee. The amount of the scholarship is $450, and may be renewed if the recipient maintains a 3.0 GPA.

GSE Scholarship
This scholarship is presented to an upperclass student. The recipient must be enrolled in studies in the combined MU/PA College of Osteopathic Medicine Program. The amount of this award is $1000. The chairperson of the Biology Department will make a recommendation for this award to the Scholarship Committee.

Halloran Scholarship
This scholarship is presented to an entering freshman who has demonstrated academic achievement. Preference is given to a student who resides in Potter County. The amount of this award is $500 per year for four years, and the recipient is selected by the Scholarship Committee.

Halloran Memorial Scholarship
This scholarship is presented to entering freshmen who have achieved academic excellence. Preference is given to those who reside in Potter County. The amount of this award is $1000, non-renewable. The number of awards may vary from year to year, and recipients are selected by the Scholarship Committee.

Norejane Hendrickson Scholarship
This scholarship is presented to an entering student from a Potter County High School who was in the top 25% of his or her senior class with an SAT of at least 1050. This is a $300 award. The recipient is selected by the Scholarship Committee.

Honors Program Scholarship
This scholarship is presented to upperclass students. The recipients must be continuing students in the Honors Program with high academic standing.

Mike Howland Scholarship
This scholarship is presented to a freshman who resides in Tioga County, PA. The amount of this award is $1000 per academic year, non-renewable. The recipient is selected by the Scholarship Committee.

Linda A. Ballard Hulslander Scholarship
This scholarship is presented to an entering freshman pursuing a degree in nutrition and dietetics. Recipients must be in the top two fifths of their high school graduating class and have an SAT score of 1000 or more. This scholarship may be renewable if the recipient maintains a 3.0 cumulative grade point average and remains in the degree program. The recipient is selected by the Scholarship Committee.

Eugene Jones Music Vocalist Scholarship
This scholarship is presented to entering freshmen majoring in music whose primary instrument is voice. The recipient must be in the top 20 percent of their high school class, 1100 SAT score, achieve a minimum score of 80 on the Theory Placement Test and perform an outstanding audition for department admission.

Wendell and Jobyna Judson Scholarship
This scholarship is presented to an entering freshman who graduated in the top two fifths of their high school senior class and achieved a minimum SAT score of 1000. The scholarship is renewable if the recipient maintains a 2.5 grade point average. The amount of the renewable award is $1000. Preference in awarding the scholarship is given to residents of Bradford County, PA. Recipients are selected by the Scholarship Committee.

Rod C. Kelchner President's Scholarship
This scholarship is presented to a recipient who is an entering freshman, graduated in the top two fifths of his or her high school class, and obtained a minimum SAT score of 1000. This scholarship is renewable if the recipient maintains a 2.5 grade point average. The amount of this award is $1000. A varying number of awards will be available each year. Recipients are selected by the Scholarship Committee.

Martin Luther King Jr. Scholarship
The Martin Luther King Jr. Scholarship is supported through the Mansfield University Foundation. The award is $1000 for the academic year, non-renewable. General scholarship guidelines are used to select an entering student as the recipient with the Scholarship Committee making the selection.

Jean E. Koch Memorial Scholarship
This scholarship is presented to an entering freshman who demonstrates academic achievement. The amount of this award is $1300 per academic year. General scholarship guidelines are used to select the recipient, with the decision being made by the Scholarship Committee.

Jean Skrynski Kreuscher Scholarship
This scholarship is presented to students who have been accepted for enrollment as music majors or currently enrolled music majors. Recipients are selected on talent without regard for financial need. Recipients must have attained SAT scores of 900 or more. The number of scholarships is determined annually. Several $1000 awards and several $500 non-renewable awards are given for the academic year. A committee of music faculty reviews applicants and forward recommendations to the Scholarship Committee.

Reva Dickinson Learn and Dana Lee Learn Endowed Scholarship
Known as the "Learn Presidential Scholars," this scholarship is presented to recipients who are entering freshman, graduated in the top fifth of their high school senior class, achieved a minimum SAT score of 1200, and participated in scholastic and community organizations and exhibited leadership potential. This scholarship may be renewed if the recipient maintains a minimum 3.0 grade point average and demonstrates participation in leadership activities. A varying number of $2000 renewable scholarships are available. Recipients are selected by the Scholarship Committee.

S. Manford Lloyd Memorial Scholarship
This scholarship is presented to a freshman student who is majoring in math with strong academic credentials. Recipients must be in the top 10% of their high school graduating class. SAT scores are also considered. This scholarship may be renewed if a 3.0 cumulative grade point average is maintained each semester. This award is $1200 and is renewable. Recipient is selected by the Scholarship Committee.

Ferris J. Lutes Athletic Scholarship
Recipients must be a member of the men's intercollegiate basketball team, and demonstrate the highest traits of leadership, citizenship, behavior and character both on and off the playing field.

Helen Dieffenbach Lutes Athletic Scholarship
Recipients must be a member of a women's intercollegiate athletic team, and demonstrate the highest traits of leadership, citizenship, behavior and character both on and off the playing field.

Mansfield University Dining Services Scholarship
This scholarship is presented to full-time, upperclass students. Recipients must have a 2.8 cumulative grade point average, be involved in campus organization/service activities and have financial need. Two full meal plan scholarships for the academic year are awarded. Recipients are selected by the Scholarship Committee.

Mansfield University Foundation Scholarship
This scholarship is presented to entering freshmen who demonstrate academic achievement and involvement in extracurricular and community activities. The number of awards varies from year to year. Scholarships are $1000 per academic year and are non-renewable. General scholarship guidelines are used to select the recipients with the decision being made by the Scholarship Committee.

Jonathan G. March Scholarship
This scholarship is presented to a freshman student from Tioga County, PA. The student selected for this award is distinguished more by effort and commitment to higher education goals than by past academic achievement. This award is $1000 per academic year with the recipient being chosen by the Scholarship Committee.

Louise C. McConnell Choral Scholarship
This scholarship is presented to a fulltime, upperclass female student with a 3.0 cumulative grade point average who is a member of the Concert Choir and has performed an outstanding audition. The amount of the scholarship is $750 and a committee of music faculty will review applicants and forward the recommendation to the Scholarship Committee.

Edward McInroy Scholarship
This scholarship is presented to a freshman student from Tioga County, PA. The recipient is distinguished more by effort and commitment to higher education goals. The amount of this award is $1200 and non-renewable. Recipient is selected by the Scholarship Committee.

Melhuish Elementary Education Scholarship
Applicants must be majoring in elementary education, have earned 64-95 credits with an overall GPA of 3.30. An essay must also be submitted describing their service and volunteer work. The award is $1000. The recipient is selected by the Education and Special Education Department.

William Merryman Nursing Scholarship
This scholarship is presented to a student majoring in nursing with a cumulative GPA of 3.5 or higher. Students applying for this $500 non-renewable scholarship must submit a narrative describing their educational goals, extra-curricular activities, community service and a statement of why they should be considered for this award.

Corrine L. Miller Scholarship
This scholarship is presented to an elementary or special education major who has completed at least 64 credits and passed the "gates" requirements for acceptance as a certification candidate. Applicants must demonstrate the attitudes and skills of an innovative, risk-taking teacher and community leader, and based on a specific set of questions. The amount of this award is $500. The scholarship may be received for a second year assuming the recipient continues to meet the scholarship criteria. The Education and Special Education Department selects the recipient.

Music Scholarships
This scholarship is presented to upperclass students who have achieved a minimum 2.5 cumulative grade point average, completed 32 credit hours and completed a successful audition before the music faculty.

Stanley Henry Nauman Scholarship
This scholarship is presented to a deserving undergraduate student in the Wildlife and/or Fisheries program. A committee of biology faculty reviews applications and forwards a recommendation to the Scholarship Committee. This is a $300 non-renewable award.

Jacob Oberly Earth Science Scholarship
This scholarship is presented to a student majoring in earth and space science education with a cumulative GPA of 3.5 or higher. Students applying for this $500 non-renewable scholarship must submit a narrative describing their educational goals, extra-curricular activities, community service, and a statement of why they should be considered for this award.

Horace B. Packer Foundation Scholarship
This scholarship is presented to entering freshmen who must be a resident of Tioga County, the top fifth of their high school graduating class, obtain an SAT of 1200 or more and participate in scholastic and community organizations and demonstrate leadership potential. This scholarship may be renewed if the recipient maintains a 3.0 cumulative grade point average and continues to demonstrate participation in leader-

ship activities. The Horace B. Packer Foundation will provide four $2000 scholarships for incoming students which are renewable for up to four years of enrollment. Recipients are selected by the Scholarship Committee.

Phi Delta Kappa Scholarship
The Phi Delta Kappa Scholarship was created by the Mansfield Chapter of Phi Delta Kappa, Professional Education Fraternity. The award is $500, non-renewable. The recipient is selected from applicants currently enrolled in second year, third year, or fourth year of studies in the Education and Special Education Department. Applicants must submit an essay addressing the important problems facing education today and suggest possible solutions.

Maryon Farrer Powell Scholarship
This scholarship is presented to a student who is majoring in dietetics. The recipient of this scholarship can either be an entering or currently enrolled student who demonstrates strong academic ability and has financial need. This is a $850 non-renewable award. General scholarship guidelines are used to select the recipient, with the decision being made by the Scholarship Committee.

Presser Scholarship
This scholarship is presented to a student who demonstrates excellence in academics and music. The recipient must excel in applied music and academic subjects with at least a 3.0 cumulative grade point average. The scholarship is based on merit. The recipient must be a full-time student for the academic year after receiving the scholarship. This award amount may vary for each academic year. A committee of music faculty review the applicants and forward their recommendation to the Scholarship Committee.

Sage Book Award
This scholarship is presented to a freshman English major with the highest verbal SAT score and class rank. The award provides a credit for books at the University Bookstore. The amount of this award is $250.

Ada Mae Saxton Music Scholarship
This scholarship is presented to an entering freshman majoring in music. The recipient must be in the top 20 percent of his or her senior high school class, obtain a minimum SAT score of 1100, obtain a minimum score of 80 on the Theory Placement Test and perform an outstanding audition for department admission. This $1000 scholarship is renewable for an additional three years if the recipient continues as a full-time music major at Mansfield University, maintains a 3.0 grade point average, and is recommended by the primary teacher and ensemble director.

A. Hugh Schintzius International Student Scholarship
This scholarship is presented to an international student pursuing their first undergraduate degree and has achieved academic achievement based on several factors. This scholarship is renewable if specific grade point averages are achieved. The amount of the scholarship is $500.

Elinor Schipbanker Scholarship
This scholarship is presented to a freshman art major. At least one $1000 award is available each academic year, non-renewable. General scholarship guidelines are used to select the recipient, with the Scholarship Committee making the selection.

Scholar Recognition Book Scholarship
This scholarship is presented to fulltime, upperclass students who are involved in extracurricular activities. The award provides a credit for books at the University Bookstore and is awarded by the Scholarship Committee.

Mary McInroy Sheffer Scholarship
This scholarship is presented to an education major who has completed registration for student teaching for either the fall or spring of the following year and has a minimum 3.0 GPA. Applicants must submit three letters of reference that speak to the applicant's character and commitment to teaching, and a position paper of no more than 1,000 words on the importance of character in the committed teacher. The award is for $325 and the recipient is selected by the Education and Special Education Scholarship Committee.

Simonson Price Scholarship
The recipient of the scholarship must be an undergraduate education major with at least a 3.2 grade point average. The Education and Special Education Department will recommend a qualified applicant to the Scholarship Committee.

Slabey Scholarship
This scholarship is presented to full-time students who are majoring in computer science or information systems. The recipient must have a minimum cumulative grade point average of 2.70 and have completed six credit hours in computer science. The recipient must maintain good academic and social status. Preference will be given to students who are involved in or show an interest in diversity issues and multicultural affairs and demonstrate financial need. The recipient must contribute to the campus community by participating in student organizations, activities or forums. .

Kathryn McInroy Smith and Alice Smith Bailey Scholarship
This scholarship is presented to an entering freshman majoring in music and who was in the top 20 percent of his or her senior high school class. Recipients must have a minimum SAT score of 1100, achieve a minimum score of 80 on the Theory Placement Test, and perform an outstanding audition for department admission. Preference is first given to students who graduated from the Wellsboro Area Public School District. This scholarship is renewable if the recipient continues as a full-time music major, maintains a 3.0 grade point average, and is recommended by the primary teacher and ensemble director based on the recipient's quality of contribution to the ensemble.

Ruth Redman Stephens Scholarship
This scholarship is presented to a freshman student who graduated from a high school in Sayre, PA, Athens, PA, or Waverly, NY. The recipient should have graduated in the top 10% of his or her class, be a good citizen, and achieved high SAT scores. Community and school activities are considered. This scholarship is renewable for up to 8 semesters provided a 3.5 cumulative grade point average is maintained. This award is for $1500 per academic year. The recipient is selected by the Scholarship Committee. Award given once every four years.

Richard Swartz Scholarship
This scholarship is presented to an upperclass double reed major maintaining at least a 3.0 cumulative grade point average. This is a $150 award.

Elden and Marjorie Tewksbury Scholarship
This scholarship is presented to an undergraduate student majoring in teacher education who has completed at least 30 semester hours with a minimum 3.0 grade point average. Applicants must submit an essay that addresses the knowledge base metaphor for teacher education at Mansfield University: "Teacher as Reflective Decision Maker." Preference for one of the two scholarships will be given to a resident of the Southern Tier of New York. The award is $1000. The scholarship may be renewable and is awarded by the Education and Special Education Department.

Michele Towers Scholarship
This scholarship is presented to an elementary education or special education major who has completed 30-95 credits with a minimum 3.0 GPA. Recipients are also selected on their orientation to service and commitment to teaching. Students must complete an application and essay about the concept of service. This is a $500 award. The Education and Special Education Department will select the recipient.

University Senate Scholarship
This scholarship is presented to an upperclass student who has excelled academically. The amount of this award is $1500 per academic year. The selection will be made by the Scholarship Committee.

Verizon Scholarship for Computer Science and Technology
This scholarship is presented to an entering freshman who demonstrates high academic achievement and qualifies for financial assistance. This is a $1000 non-renewable award given by Verizon Wireless with selection made by the Scholarship Committee.

Gladys Frick Weaver Scholarship
This scholarship is presented to a currently enrolled nursing student who has successfully completed 6 semesters of course work at Mansfield University. The recipient must demonstrate basic nursing knowledge by achieving a minimum of a B grade in his/her nursing courses. The recipient must also demonstrate an interest and competence in bedside nursing, an attitude of caring and compassion and an acceptance of all patients. The recipient should encourage excellence in bedside nursing in the other members of the health care team by example and by direction. The amount of this award is $1500 annually. Applications are forwarded to the nursing faculty for final selection.

Wheel Inn Scholarship
A varying number of scholarships are given to entering freshmen from Bradford, Lycoming, Sullivan and Tioga Counties through funds raised by the Wheel Inn. Recipients are selected through the general scholarship guidelines.

Mildred Packard Wright Scholarship
This scholarship is presented to an incoming freshman once every four years in a mathematics related major. Preference for the scholarship will be given to a student from Troy, Canton, or Bradford County, PA. The amount of this award is $1000 per academic year, with selection made by the Scholarship Committee.

Dr. Edwin Zdzinski Scholarship
This scholarship is presented to a full-time music student with junior status in the Music Education curriculum and at the time selected to receive the award in the senior year, must have a 3.0 GPA in music and have recommendations from instrumental conducting faculty. The award is $250 made by the Music Department Scholarship Committee.

Awards

American Chemical Society, Corning Section Student Award
Recognition on a plaque located in Grant Science Center to a graduating senior of high academic achievement.

American Institute of Chemists Student Award
A one-year associate membership in American Institute of Chemists and recognition on a plaque in Grant Science Center to a graduating senior of high academic achievement.

Biology Outstanding Major Award
The Commonwealth of Pennsylvania University Biologists annually recognize the outstanding biology major from Mansfield University at its annual meeting held on the campus of one of the 14 state system universities. The award includes a trip to the annual meeting, the presentation of the personal certification at the meeting banquet, and a certificate for display in Grant Science Center.

Broadcasting Award
One award from the New York Academy of Television Arts and Sciences.

Henry Dyck Book Award
Awarded annually to a student who demonstrates the highest academic achievement in English 226, The History of the English Languages.

Andrew Frank Award
Andrew Frank was a Mansfield Education major who maintained his morale and courage throughout his college years despite a debilitating illness. This $50 award is presented by his family and friends to the graduating education student who, in the judgment of the faculty, has overcome adversity to achieve a college education.

Rhino Award
One award given for contributions to the Theatre.

Tiadaghton Audubon Society Memorial Environmental Award
A competitive cash grant for one or more promising biology students to conduct independent research in disciplines related to the environment or organisms living in natural ecosystems. The award is made in memory of noted environmentalist Forrest Watkins, and former Mansfield Biology professor, Dr. Charles Weed.

Sam Dee Thomas Outstanding Painting Award
Given for oil painting or waterbase media.

V. UNIVERSITY POLICIES

The University reserves the right to make changes in curricula, degree requirements, course offerings, and all academic regulations at any time when, in the judgement of the faculty, the president, and council of trustees, such changes are in the best interest of the students and the university. University policy procedures can be found in the student handbook, The Password.

GRADUATION REQUIREMENTS

It is your responsibility to know the university requirements for your major and for graduation.

To graduate from Mansfield University with an **associate degree**, you must meet the following requirements.

(1) Earn the minimum number of credit hours for the particular major, plus any required preparatory (090) courses. Preparatory courses completed increase the total number of credit hours required for graduation.
(2) Earn a minimum 2.0 cumulative quality point average (QPA) in all work attempted and in the major.
(3) Complete requirements for general education and the major.
(4) Complete the Writing Across the Curriculum, Information Literacy and Global Awareness programs.

To graduate from Mansfield University with a **baccalaureate degree**, you must meet the following requirements.

(1) Earn the minimum number of credit hours for the particular major, plus any required preparatory (090) courses. Preparatory (090) courses completed increase the total number of credit hours required for graduation.
(2) Earn a minimum 2.0 cumulative quality point average (QPA) in all work attempted and in the major.
(3) Complete requirements for general education and for the major.
(4) Complete 40% of the credits required for a degree at the 260 course level or higher.
(5) Complete the Writing Across the Curriculum program.
(6) Complete a second year language proficiency or minor for a B.A. degree.

To graduate from Mansfield University with a recommendation for **teacher certification** you must meet the following requirements.

(1) Earn the state mandated minimum QPA for your cohort group (determined when first "gates" requirements are met and not sooner than 48 credits).
(2) Complete a teacher preparation certificate program approved by the Pennsylvania Department of Education.
(3) Complete all Mansfield University requirements for a baccalaureate degree.
(4) Pass all state mandated Praxis examinations for your area(s) of teaching certification.
(5) Present evidence that you have met state mandated clearance requirements as specified under Act 34 and Act 151.

You may earn a university degree with less than the state mandated minimum QPA, lacking the required clearances, or without having passed all Praxis examinations, but the University will not recommend you to the Pennsylvania Department of Education for certification.

No student may be granted an associate degree or a baccalaureate degree from the University without earning at Mansfield University at least 25% of the required total credits for the degree. Exceptions may be made with approval from the Office of the

Provost. Transfer credit may be awarded for up to 50% of the major requirements including major-related electives. If the remaining credits do not meet Mansfield University guidelines for general education, they are applied as free electives.

You will receive a "Graduation Outlook" upon completion of 90 credit hours. The "Graduation Outlook" notes courses and/or requirements still necessary to be completed for graduation including any deficiency in the cumulative quality point average (QPA) in all work attempted and in the major. A final outlook showing deficiencies will be sent after the end of the Add/Drop period in the semester in which the student intends to graduate.

PREPARATORY (090) COURSES

Entering students are evaluated in mathematics and writing to assure a minimal level of competency. In mathematics your previous preparation is assessed. A writing placement examination is administered to all entering students, and placement is made in ENG 090 or ENG 112 W on the basis of your performance on that essay.

If 090 courses are necessary, the minimum number of credits required for graduation increases. Any required 090 course must be taken during the first 57 credit hours attempted.

ACT 48

ACT 48 of 1999 requires persons holding Pennsylvania professional educator certification to complete continuing education requirements every five years to maintain active certification. Teachers wishing to use credit course work at Mansfield University to help meet this requirement must notify the Center for Lifelong Learning (CLL). The Center will report courses and grades earned to the Pennsylvania Department of Education. Teachers are responsible for selecting courses that pertain to their areas of certification or teaching assignments.

Contact Karen Norton at the CLL, (570) 662-4850, (800) 661-3640, or visit our website at http://cll.mnsfld.edu

COURSE LOAD

A normal academic course load is 12 to 18 credit hours. To schedule more than 18 credit hours in a semester, you must have a 3.0 cumulative point average (QPA). If you do not have a 3.0 QPA, you may submit a petition to the Provost/Vice President for Academic Affairs for permission. Petitions are available in the Academic Records Office.

ADD/DROP

You may ADD a course during the first seven working days of a semester and DROP a course during the first six working days of a semester. Add/Drop cards are available in the Academic Records Office. The class instructor must sign all add or drop cards. If you have earned fewer than 60 credits you must also have add or drop cards signed by your advisor.

ACADEMIC INTEGRITY

Students are expected to do their own academic work. Dishonesty in academic work, including cheating, academic misconduct, fabrication, or plagiarism is unacceptable. Faculty are expected to instruct students in ways of avoiding these forms of academic dishonesty. Faculty are also responsible for assessing and reporting all charges of academic dishonesty to the Office of the Provost. The student handbook, The Password, outlines the procedures faculty will use to initiate disciplinary action in cases of academic dishonesty.

Faculty are responsible for informing students of course evaluation criteria, for adherence to the stated criteria, and for determining grades in a fair and equitable manner. If a student charges that a faculty member has discharged professional duties in an improper, arbitrary, discriminatory, or otherwise unjustified manner, the complaint will be considered by the procedures outlined in The Password.

GRADING

Professors provide students a written syllabus prior to the end of the first week of class which includes the criteria for academic evaluation. Mansfield University uses a 4-point grading scale, as shown below, to evaluate academic performance.

GRADES	INTERPRETATION	QUALITY POINTS
A	Excellent	4.0
A-		3.7
B+		3.3
B	Above Average	3.0
B-		2.7
C+		2.3
C	Good Standing	2.0
C-		1.7
D+		1.3
D	Minimally Passing	1.0
D-		0.7
F	Failure	0.0

The following designations may be used in addition to the grades shown above:

AU	-	Audit
EX	-	Credit by Examination (D- grade or better)
I	-	Incomplete
P/F	-	Pass/Fail (D- grade or better)
S	-	Satisfactory (D- grade or better)
U	-	Unsatisfactory
W	-	Withdrawal from a course after the drop period

The cumulative quality point average (QPA) is determined by dividing the total number of quality points earned by the total number of credit hours of work attempted. The cumulative QPA is the index by which a student's academic standing is judged.

Mid-Semester Grades

Students enrolled in 090, 100-level, and 200-level courses receive mid-semester grades on a scale of A through F to enable them to recognize their academic status in each of these courses at mid-semester. Mid-semester grades in 300-level and 400-level courses are provided at the discretion of the course instructor.

INCOMPLETE (I)

An "I" (Incomplete) grade is used to denote unfinished work because of serious mitigating circumstances beyond the student's control. It is a privilege granted because of circumstances, not a right to be expected by the student.

The I is submitted by professors at their discretion on the grade report form at the end of the semester. The professor and the student will identify the specific requirements to be satisfied in order to convert the I to a letter grade. The student is responsible for the removal of an I grade within the first three weeks of the subsequent semester except in cases where serious circumstances prevail and a request for an extension is made by the faculty member to the Academic Records Office. If the I grade is not cleared within the allotted time period, a final grade of F is recorded.

PASS/FAIL (P or F)

You may take a total of eight courses on a pass/fail basis; however, no more than one course each semester may be taken under the pass/fail option. Pass/Fail credits are not reflected in the student's QPA; however, a passing (P) grade is counted as credit hours earned. Students may elect the pass/fail option during the first seven working days of the semester. They may neither change the pass/fail option to a letter grade nor select the pass/fail option after the first seven working days of the semester. A passing grade is D- or better. Three failures under this option will constitute a loss of the option. Pass/Fail application forms are available in the Academic Records Office. The following restrictions apply:

1. 100 or 200 level courses may not be taken pass/fail to fulfill any General Education requirements.
2. Any 100 or 200 level course taken pass/fail will count only as a free elective.
3 Courses required to complete a major or an academic minor may be included in the pass/fail option at the discretion of that department, require the chairperson's signature, and may not be counted for General Education credit.

WITHDRAW FROM A COURSE (W)

After the drop period, you may withdraw from a course until 4 p.m. the Friday of the ninth week of classes. You need to complete a course withdrawal form and have it signed by the course instructor. If you have earned fewer than 60 credits, you must also have the withdrawal card signed by your Advisor. Once you have the required signatures, submit the form to the Records Office in South Hall. A W will be recorded in the permanent record and will not be calculated in the quality point average (QPA). A student who withdraws from all courses is automatically withdrawn from the University.

WITHDRAWAL FROM THE UNIVERSITY

Students who wish to withdraw from the university may do so by completing a "Withdrawal from Mansfield University Form" which is available in the Academic Records Office in South Hall or from the Office of the Provost in North Hall 510. Upon receipt of the form, the administration will promptly notify all appropriate offices, including the student's advisor and course instructors. On-campus students are responsible for checking out of their residence hall by contacting a staff member.

Students who leave the university without properly notifying the university for other than extenuating circumstances (as documented by a physician, counselor, or other appropriate individual) will receive a grade for each course based on the total semester.

All students who have withdrawn and who desire admission to the university must file an application for readmission.

Students who apply for readmission within one calendar year of the date of withdrawal will have the application fee waived. Except for extenuating circumstances (e.g. medical reasons), students are not guaranteed readmission.

Withdrawal from the University is likely to have serious financial ramifications. Students are encouraged to discuss such action with a financial aid officer if they are receiving financial aid.

AUDIT (AU)

Matriculated students interested in auditing a course (attending class, but receiving no grade or credits) must submit the Audit Form before the end of the Add Period (first seven working days of the semester). The Audit Form is available in the Academic

Records Office, South Hall. The class instructor must grant permission for any student to audit a course. Not all courses are available for audit. Courses with a high degree of specialized equipment, and one-on-one faculty-student interaction (such as science labs) are generally not open to audits.

REPEATING A COURSE

When you repeat a course the last grade received is used in computing your cumulative quality point average (QPA). If you fail a course, you may not repeat it on a pass/fail or credit-by-exam basis.

GRADE CHANGE

If an instructor makes an error in the final grade given to a student, a grade change request must be made within the first three weeks of the subsequent semester. Grade changes are not allowed after that time unless a request for an extension is made by the faculty member to the Office of the Provost.

DUE PROCESS (Appealing a Grade)

If you wish to appeal a grade, refer to the procedures outlined in The Password.

TRANSCRIPTS

Official transcripts of courses taken at Mansfield University are prepared by the Academic Records Office and issued according to the following policies:

a. Student's records are confidential. Transcripts, therefore, are issued only at the written request of the student. Requests by telephone are not accepted.
b. No transcript is issued to or for a student who is indebted to the university until the debt has been paid in full.
c. Official transcripts of credits(s) earned at other institutions that have been presented for admission and evaluation become part of your permanent record in the Academic Records Office and cannot be reissued or copied for distribution. Transcripts from other institutions must be obtained directly from those institutions.
d. Official transcripts issued directly to you will only be released in a signed, sealed, embossed envelope. The envelope will bear the statement that if opened the transcript should be considered unofficial and the integrity of the document is not guaranteed by Mansfield University.
e. Unofficial transcripts (student copy) contain the same information as an official, but do not bear the authorized signature or seal of the university.

MINIMUM ACADEMIC STANDARDS

All degree-seeking students must meet the minimum academic standards of the institution. The minimum academic requirements for continuation at Mansfield are:

0-15	credit hours attempted - 1.20 QPA
16-30	credit hours attempted - 1.40 QPA
31-45	credit hours attempted - 1.60 QPA
46-60	credit hours attempted - 1.80 QPA
61+	credit hours attempted - 2.00 QPA

Credit hours attempted include transferred credit hours.

ACADEMIC PROBATION

A matriculated student whose cumulative quality point average (QPA) is between the minimum academic standard and 2.00 at the end of a semester is placed on academic probation until the QPA is 2.00 or above.

Probationary status does not mean that a student is dismissed from the University. It means that although the minimum academic requirements have been met, the QPA is not acceptable for graduation. A student on probation receives a letter from the university about probationary status and subsequent assignment to the Academic Advising Center in South Hall.

With the assistance of an advisor, students develop strategies for improvement and take advantage of available academic support services.

ACADEMIC DISMISSAL

A degree seeking student who earns a cumulative quality point average (QPA) that is below the required minimum academic QPA at the end of any semester will be dismissed from Mansfield University. The minimum QPA varies depending upon how many credits you have attempted at Mansfield University and how many credits the university has accepted in transfer. (See "Minimum Academic Standards" above.) If you are academically dismissed, you may be reinstated to the university by appealing to and appearing before the Academic Standards Review Board prior to the beginning of the next semester, or you may apply to the Admissions Office for re-admission following an interval of one year.

A student who has attempted 45 or fewer credits and is academically dismissed and is then subsequently reinstated by the Academic Standards Review Board will be assigned to the University Learning Center to participate in the Academic Skills Development Program. The purpose is to help the student improve his / her overall academic performance. Failure to participate in the Academic Skills Development Program will be considered at any subsequent dismissal hearing. Academic dismissal may impact your eligibility for financial aid. A second or subsequent dismissal terminates your association with Mansfield University.

CLASS STANDING

Class standing is determined by the total number of semester hours earned including credits accepted in transfer from other accredited colleges.

Freshman	0-30	semester hours earned
Sophomore	31-60	semester hours earned
Junior	61-90	semester hours earned
Senior	91+	semester hours earned

DEAN'S LIST

The Dean's List is issued at the close of each semester. It includes only undergraduate matriculated students. You must earn at least 12 credits for which a letter grade is received (P/F and S/U grades are excluded). The semester quality point average (QPA) must be between 3.50 and 3.99 inclusive.

PRESIDENT'S LIST

The President's List is also issued at the close of each semester. It includes students who fulfill the above requirements and attain a semester quality point average (QPA) of 4.00.

INTENT TO GRADUATE

Candidates for the Associate Degree or Bachelor's Degree must complete the Intent to Graduate form available in the Academic Records Office, South Hall.

Students are encouraged to participate in the graduation exercise which recognizes and honors their academic accomplishments.

COMMENCEMENT HONORS

Superior scholastic achievement is recognized at Commencement. Bachelor's degree students must have completed at least 45 credit hours at Mansfield University prior to their final semester to receive honors recognition at Commencement. Honors designations are based on cumulative quality point average (QPA) as indicated:

Cum Laude	3.35 to 3.64
Magna Cum Laude	3.65 to 3.94
Summa Cum Laude	3.95 to 4.00

Students who meet the honors requirements upon completion of their final semester with a minimum of 60 credit hours at Mansfield University, will have such recognition noted on their permanent record.

Associate degree students must have completed at least 30 credit hours at Mansfield University prior to their final semester to receive honors recognition at commencement. A cumulative QPA of 3.5 or higher is required for this recognition.

MAINTENANCE OF MATRICULATION

Students who are off campus doing approved course work consistent with program requirements and thereby meet degree or program requirements in effect at the time of initial matriculation are considered to be in a continuing matriculated status.

READMIT POLICY

Matriculated students who have not been in regular attendance during the previous semester must apply for readmission to the university. This does not apply to non-matriculated students.

Readmit applications must be submitted, along with the appropriate fee, by March 1 for the fall semester and November 1 for the spring semester. A statement should accompany the application about activities, including such information as employment, college course work completed, or military service. The application fee may be waived for students who provide a letter to the Office of Admissions citing reason(s) for withdrawal and stating expected return entry date.

Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission. Before students are readmitted they must clear all outstanding university-related debts.

CERTIFICATION

Teacher Education Certification

The Teacher Education Unit is responsible for all teacher certification programs at Mansfield University regardless of the department that houses the program. The Unit is nationally accredited by the National Council for the Accreditation of Teacher Education (NCATE) at both the undergraduate and graduate level. The Unit prepares teachers who have the knowledge, skill, and dispositions to meet the demands of public education in the twenty-first century.

The Teacher Education Unit's guiding principle is that of "Teacher as Reflective Decision Maker." The Unit has adopted Charlotte Danielson's Framework for Teaching as the conceptual framework for guiding students in their development as reflective decision makers. This framework centers on four domains or areas of teacher responsibility: Planning and Preparation; Classroom Environment; Instruction; and Professional Responsibility.

Programs in the unit include:

Program	Home Department	Type of Certification
Art Education BSE	Art	K-12 Art Education
Music Education BSE	Music	K-12 Music Education
Elementary Education BSE	Education and Special Education	1-6 Elementary Education
Early Childhood additional certification	Education and Special Education	K-3 Early Childhood (must hold Elementary certification)
Special Education BSE	Education and Special Education	K-12 Mentally/Physically Handicap
Dual Program Elementary and Special Education	Education and Special Education	1-6 Elementary Education and K-12 Mentally/Physically Handicap
Social Studies—History BSE	History and Political Science	7-12 Citizenship
English BSE	Languages and Literature	7-12 English Education
Spanish BSE	Languages and Literature	7-12 Spanish Education
French BSE	Languages and Literature	7-12 French Education
German BSE	Languages and Literature	7-12 German Education
Biology BSE	Biology	7-12 Biology Education
Chemistry BSE	Chemistry and Physics	7-12 Chemistry Education
Physics BSE	Chemistry and Physics	7-12 Physics Education
Earth and Space Science BSE	Geography and Geology	7-12 Earth and Space Science Education
Mathematics BSE	Mathematics	7-12 Mathematics Education

Advancing in the Teacher Certification Program

Students entering the university select an education program and are admitted as a major in that program. For example a freshman or transfer student might choose to be an Biology Education major in the Biology Department. Once the student has chosen a major, then he or she progresses through the gates in the program. Education majors are evaluated at three stages in their program. Mansfield evaluates student preparation based on national standards and Pennsylvania Act 354 requirements. The student must complete all three gates to be recommended for certification. Students will receive written confirmation that they have met Gates One and Two. Gate One must be completed before taking upper level (courses numbered 260 and above) courses. Gate Two must be completed before beginning student teaching. Gate Three must be completed before recommendation for certification. Each department may have additional requirements specific to their specific Education program. See the individual program descriptions in this catalog or contact you education program advisor for more information.

Gate One: Students completing the following requirements between August 22, 2002 and August 22, 2003 will be designated a Teacher Education Certification Candidate (TECC). Students must be a TECC in order to register for upper level courses number 260 and above. To become a TECC, the student must:

- complete a minimum of 48 hours of course work which may include transfer hours;
- have a Quality Point Average (QPA) of 2.8 or higher, (After August 22, 2003 the TECC admission PA will be 3.0 or higher);
- complete two college level mathematics courses; and one English Literature course

and one English Composition before becoming a TECC (Math 090 and English 090 or developmental or remedial transfer courses do not meet this requirement);
- pass the Introduction to Education (ED 102) course;
- pass the Praxis I certification test (Students transferring into Mansfield University from another institution and who have met all other Gate One requirements may be designated a probationary TECC. They will have one semester after admission to Mansfield University to pass the Praxis I);
- complete criminal background and child abuse clearances.
- See program description or advisor for additional program specific requirements.

Gate Two: Students wishing to be admitted to Student Teaching must complete the following requirements:
- have a Quality Point Average (QPA) of 2.8 or higher for students admitted as a TECC between August 22, 2002 and August 22, 2003 (Students admitted to TECC after August 22, 2003 must have a 3.0 or higher);
- complete all education courses except student teaching and professional seminar; students wishing to take non-education courses after student teaching must petition the appropriate department chair and the Director of Teacher Education;
- complete criminal background and child abuse clearances again.
- See program description or advisor for additional program specific requirements.

Gate Three: Students who wish Mansfield to recommend them for Teacher Certification must complete the following requirements:
- pass the Praxis II certification tests;
- complete the appropriate BSE degree with a QPA of 2.8 or higher (Students admitted to TECC after August 22, 2003 must have a 3.0 or higher);
- apply for Pennsylvania Teacher Certification, repeating criminal background and child abuse clearances if they have expired.

For information and registration for Praxis I and Praxis II exams, contact the Office of Career Development at 570-662-4133. For more information on specific program requirements, see the individual program descriptions in this catalog or contact you education program advisor. For more information about becoming a TECC, obtaining clearances and participating in Field Experiences, contact you education program advisor or the Office of Teacher Education at 570-662-4024.

Applicants wanting endorsement for teacher certification (initial or added) by Mansfield University must contact the Certification Officer, Retan Center and complete or submit the following:

1. Personal interview with the Certification Officer, if requested.
2. Application completed and returned with a $25 fee. Application forms are available in the Certification Office, Retan Center.

Official transcripts of all college work completed must be sent directly to the Certification Officer at Mansfield University.

Federal Title II

In October 1998, the U.S. Congress enacted Title II of the Higher Education Act (HEA). It includes requirements for institutions and states to report on teacher preparation. The purpose of Title II reporting is to provide the public information on the quality of teacher preparation. The U.S. Department of Education Title II report to congress for 2002 is based on students who completed their certification programs or degrees between September 1, 1999 and August 31, 2000.

Pennsylvania requires two series of certification tests. Praxis I consists of Reading, Writing, Mathematics, and Listening tests. Praxis II consists of a Principles of Teaching

Learning test for either Elementary school teachers or Secondary school teachers, plus one or two content and specialty tests depending on the teaching area. Students in the Mansfield University teacher education program must complete from 5 to 8 certification tests depending on their teaching area or areas. Students often complete certification in more than one area.

Title II data is compiled on students who have successfully completed teacher preparation programs and are eligible for certification. In 1999-2000, a total of 146 people completed teacher certification programs at Mansfield University and 134 of those took one or more certification tests. These 134 people took a total of 549 tests. 108 passed all the tests they attempted for an institutional summary pass rate of 81% compared to a statewide summary pass rate of 86%, ranking Mansfield University in the third quartile statewide. Federal reporting guidelines mandate providing aggregate pass rates in a number of categories. Those aggregate categories and pass rates are:

- Aggregate Basic Skills: 130 people took the tests in this category, with 6 not passing all the tests they attempted for an aggregate institutional pass rate of 95% compared to a state wide rate of 96%.
- Aggregate Professional Knowledge: 130 people took the tests in this category with 12 not passing all the tests they attempted for an aggregate institutional pass rate of 91% compared to a state wide pass rate of 92%,
- Aggregate Academic Content Areas (Math, English, Biology, etc.): 107 people took the tests in this category with 14 not passing all tests they attempted for an aggregate institutional pass rate of 87% compared to a state pass rate of 89%.
- Aggregate Teaching Special Populations (Special Education): 26 people took the tests in this category with 4 not passing all tests they attempted for an aggregate institutional pass rate of 85% compared to a state wide pass rate of 88%

Additional information and the complete Title II report may be obtained from Dr. Anne Pautz, Director of Teacher Education, Mansfield University, Mansfield PA 16933.

SECOND BACCALAUREATE DEGREE

A student who possesses a baccalaureate degree may earn a second bachelor's degree upon completion of the following requirements: 1) a minimum of 32 credit hours at Mansfield following the first degree (internships, observation/participation, and student teaching credit hours are not counted in the required minimum), 2) all requirements for the major in which the second degree is to be earned, 3) General Education is considered closed on the first degree except any specific General Education requirements for the second degree if not already completed, and 4) earn at least a 2.0 cumulative quality point average (QPA) in all work attempted and in the major. The QPA of the original degree will be "sealed". There will be a new and totally distinct QPA for the new degree.

ADDING MAJOR(S) TO A COMPLETED BACCALAUREATE DEGREE

A graduate of Mansfield University may readmit to add new major(s) to a prior degree. You must be accepted by the department offering the program of study and fulfill all the requirements for the new major. Any courses required in the new major that were completed prior to returning to Mansfield will be waived. General Education will be considered satisfied, except specific requirements for the second major, if they have not already been completed.

The QPA of the original degree will be "sealed". There will be a new and totally distinct QPA for the new major(s). You must maintain a minimum QPA of 2.0 in work taken after the baccalaureate degree to remain at Mansfield. There are no minimum number of hours which must be completed after receipt of the degree in order to add a new major.

Upon completion of all requirements, a notation will be made on the permanent record indicating the new major(s) and the date completed.

DUAL/MULTIPLE MAJORS

Students may complete multiple majors within the same degree; that is, a B.A. major may be added to a B.A. degree, a B.S. to a B.S., etc. The first major selected is considered primary. The one exception to this is the Liberal Studies major. A student may not declare Liberal Studies as a second major. Students may also complete two majors that do not lead to the same degree (B.A., B.S., B.M., etc.). To complete two majors leading to different degrees, the student declares the first major and the second major. The first major determines the specific degree awarded, and successful completion of the second major is noted on the student's transcript ("Successfully completed requirements of the academic major in _____"). Completion of two different majors does not result in the award of two degrees.

ACADEMIC MAJOR/MINOR REQUIREMENTS

The requirements for your major and/or minor appear on the Degree Audit, which is maintained in the Academic Record's Office. You must complete the major/minor requirements that exist at the time you are admitted to the university. Should major/minor requirements change, it affects only new students and currently enrolled students who may choose to satisfy the new program requirements. Students readmitted following a break of more than one semester fall under all university policies in effect at the time of readmission.

ACADEMIC MINOR

A minor consists of no less than 15 and no more than 24 related credit hours. Students must attain a minimum 2.0 cumulative quality point average (QPA) in all courses required. The Bachelor of Arts degree candidate must choose between a minor or second year foreign language proficiency. Though not a requirement for other degrees, a minor can be used to enhance your academic experience and will appear on your permanent record. Minor forms are available in the Academic Records Office, South Hall.

CHANGE OF MAJOR/MINOR

Change of major or minor forms are available in the Academic Records Office, South Hall.

UNDECLARED MAJORS

Entering students who are not ready to choose a major may be accepted as Undeclared. An advisor assists the student in choosing courses to fulfill General Education requirements and advise them about introductory courses as a means of selecting a suitable major. An undeclared student should choose a major after the second semester freshman year; however, all students must declare a major by the time they have earned 64 credit hours.

PETITION

Program Variance: under special circumstances, curriculum requirements may be modified. A department chairperson may substitute or waive major course requirements by informing the Academic Records Office in writing of such requested program change. Students may petition the Provost for other program variances.

Waiver of University Policies or Regulations: when any rule or regulation of the university causes an unfair hardship, you may petition the Provost for an exception. You should contact your advisor for assistance in preparation of a petition. Petitions are available in the Academic Records Office, South Hall.

ALTERNATIVES TO TRADITIONAL STUDY EXPERIENCES

Advanced Placement (AP)

We accept high school courses taken prior to admission to the university under the national Advanced Placement (AP) program. A minimum score of three on the qualifying examinations is required for award of credit. No more than 12 credits earned by such examinations may be applied toward graduation requirements.

College Level Examination Program (CLEP)

We participate in the national College Level Examination Program (CLEP). Mansfield University grants credit for CLEP SUBJECT examinations, but does not grant credit for the CLEP GENERAL examination. Subject examinations are available in the areas of business, composition, education, foreign languages, humanities, mathematics, science, and social science.

CLEP is a way to earn college credits for what you have already learned and may shorten your college experience. Information regarding CLEP examinations is available from the Admissions Office.

Credit by Exam (EX)

Matriculated students who feel they have already mastered the material in a Mansfield course may request permission to challenge the course by examination. Students may elect this option during the first seven working days of the semester. This does not include courses in the areas of independent study, ensemble or other group participation courses, student teaching or pre-professional experience, seminar or selected topics, and laboratory experience unless special permission is provided by the department offering the course and the Office of the Provost.

Students may not challenge a course in which they have demonstrated competency by passing a more advanced course nor a course which has been waived because of demonstrated competency or advanced placement. The examination must be completed and the contract returned to the Office of the Provost within the first four weeks of the semester. Applications are available in the Academic Records Office, South Hall.

Graduate Courses

As an undergraduate student at Mansfield, you may enroll in a graduate course (500 level) if you are within 18 semester hours of having satisfied the requirements for a bachelor's degree (as certified by the Academic Records Office).

Graduate courses may be applied toward the undergraduate degree requirements upon completion of the "Request for Permission to Enroll in Graduate Courses" request. The request form is available in the Academic Records Office and satisfactory completion of such course(s).

Graduate courses may count for graduate credit upon conferral of the bachelor's degree if these credits raise your total beyond the number required for the bachelor's degree. This does not imply automatic admission into the Graduate program.

Military Service Credit

Veterans having completed a minimum of basic training with honorable service in the United States Service Branches (DD 214) may apply for three credits in HPE 100 (Health) and/or HPE 101-199 (Physical Education). In addition, credit may be awarded for service training programs based on an official military transcript and recommendations in the American Council on Education Guide.

International Exchanges and Study Abroad

A world of opportunity exists for Mansfield students who decide to participate in international exchange or study abroad programs. We offer direct exchange programs with Charles Sturt University in Australia, and Volgograd State University in Russia. Other Mansfield study abroad programs have been arranged in Canada, Costa Rica, England and with Friedrick-Schiller-University in Jena, Germany. You may also participate as Visiting Students in other PA State System Universities' international programs or in approved programs offered by other US and foreign institutions of higher education. Contact the Office of the Provost or Study Abroad advisor for information about available programs and an application. You must provide evidence of a cumulative QPA of 2.5 and submit two references from professors or administrators. Departmental advisors and the Study Abroad advisor will help you select courses to take while abroad which will meet general education or major program requirements. Students who study abroad may opt to receive Pass or Fail grades (P/F) for up to 15 credits of course work in any one semester.

Study abroad programs are available in a variety of cost ranges. Financial aid and study abroad scholarships are available for qualified students.

Visiting Students

Students enrolled full-time at a SSHE university may elect to participate in The Board of Governors' Visiting Student program offered at sister institutions for a limited period of time. Information regarding the Visiting Student program is available from the Office of the Provost.

Independent Study and Individualized Instruction

Independent Study (IS) is available in each curricular field. The appropriate curricular prefix precedes the course number 497, and the credit hours vary from one to three. Independent Study may be repeated for more than three credit hours total, but each Independent Study project may be for no more than three credit hours.

Independent Study is an activity initiated by you to increase your already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field.

To request approval for an Independent Study, prepare a contract (available at the Academic Records Office) which then must be completed and approved by the faculty director, department chairperson and Office of the Provost. A request for Independent Study must be completed prior to the start of the semester or summer session for which the Independent Study is sought.

Individualized Instruction (II) is available on a restricted basis. Ordinarily permission to take a course by Individualized Instruction is reserved for students who are close to graduation and who have not been able to meet a degree requirement either because the course has not been available or because of some other mitigating circumstance. A request for a course by Individualized Instruction (available at the Academic Records Office), must be completed and approved by the faculty director, department chairperson, and the Office of the Provost.

HUMAN SUBJECT RESEARCH POLICY

Research projects undertaken by Mansfield University students or faculty must be approved prior to involvement of human subjects. The review process is intended for the protection of human subjects and this shall be the sole object of the review. There are two types of review - Category A and Category B. The responsibility for Category A review rests with each department in which research involving human subjects is undertaken. Research protocols are subject to Category A review if they pose no

more than minimal risk to human subjects and meet one or more of the five exempted conditions detailed in the Human Subjects Research Guidelines.

Research protocols which do not involve one of the five exempted conditions are subject to Category B review by the Institutional Review Board (IRB).

The review requirements which are outlined in the Human Subjects Research Guidelines do not apply to the following: 1) in-class research exercises which are an integral part of the learning experience in a university course; or 2) behavior modification exercises using established professional procedures; or 3) student teaching and other clinical practicums. The Human Research Guidelines document is available in the Grants and Contracts Office, North Hall.

SEXUAL HARASSMENT POLICY

Harassment on the basis of sex is a violation of Title VII of the U.S. Civil Rights Act, Title IX of the Education Amendments of 1972, and of the Pennsylvania Human Relations Act. Because the University is committed to providing an environment where each person can learn and work to his or her fullest capacity, the university does not tolerate sexual harassment.

Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature. Sexual harassment occurs when:

1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment, or a student's academic status or treatment.
2) submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting such individual; or
3) such conduct has the purpose or effect of unreasonably interfering with an individual's work or academic performance or creating an intimidating, hostile, or offensive working or academic environment.

Individuals who believe themselves to be the victims of sexual harassment, or who have questions about the university's policy on this matter should contact the Affirmative Action Office, Pinecrest 113, or call (570) 662-4051.

Existing affirmative action guidelines are used in processing complaints.

HANDICAPPED POLICY

Section 504 of the Rehabilitation Act of 1973 provides that Ano otherwise qualified handicapped individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving federal financial assistance. Section 504 prohibits discrimination against handicapped individuals in recruitment, testing, admissions, or after being admitted to a college/university. Mansfield University is committed to making the necessary adjustments in order that persons who are mentally and/or physically challenged are able to fulfill academic requirements and to ensure that they are not excluded from employment or services because of their disabling condition. Inquiries should be directed to the Affirmative Action Office, Alumni Hall 112, or call (570) 662-4051.

ACADEMIC AND HUMAN DEVELOPMENT

The University provides developmental services to students for the successful pursuit of their academic program and personal development.

These services include Academic Advising, Access Programs, Athletic Mentoring, Counseling, Learning Center, Minority Mentoring, Services for Students with Disabilities, and Writing Center.

Academic Advising

The Academic Advising Center assists students in a variety of ways related to their academic work. The Center is responsible for the advising of probationary, readmitted, and reinstated students. In addition, the Academic Opportunity, Athletic Mentoring, and Minority Mentoring programs are assigned to the Center, as well as the Academic Standards Review Board (ASRB).

All students with a QPA below 2.0 are required to make regularly scheduled appointments with their advisor throughout the semester. An advisor can help students make plans and take specific action to improve their academic progress. The goal of the Advising Center is to serve as a resource area and to help students adjust to college.

Access Programs

There are two academic support programs assisting individuals who have potential to be successful college students, but do not qualify for regular admission to the University: the Act 101 and the Academic Opportunity Program (AOP), located in South Hall.

The Act 101 program supports Pennsylvania residents whose cultural, economic, or educational backgrounds might impair their ability to pursue higher educational opportunities successfully. The Academic Opportunity Program (AOP) is designed for students who did not do well enough in high school to qualify for regular admission to the University.

Both programs help to develop their academic skills. Students accepted through these special programs become regular matriculated students with the same opportunities and responsibilities as other students in accord with university policies and procedures.

Athletic Mentoring

The Athletic Mentoring program helps student athletes improve their academic performance and maintain their academic eligibility for participation in intercollegiate athletics. Although athletes on academic probation represent the primary service population, all student athletes are invited to use the support services in this program. These services include academic advising, advice on course scheduling, mentoring, study groups, tracking and monitoring academic performance, and making referrals to other academic support services such as tutoring, counseling, testing, and career advising.

The program also maintains relations with other academic support services to help deliver and coordinate services to athletes and with coaches to report and monitor the academic progress of student athletes.

Counseling Center
The University Counseling Center provides free counseling services to all university students and staff. Our primary purpose is to help people grow in a positive and productive direction. We will assist you in understanding yourself, your feelings and emotions, your personal problem areas, and your educational concerns. We will develop a strategy with you to assist in reaching your goals and in helping you to live more effectively.

Learning Center
The Learning Center offers tutorial assistance and professional consultation for students who wish to improve basic reading, writing, computational and/or computer skills or extend their knowledge in academic content areas. The center is staffed by professionals, paraprofessionals, and peer tutors. It includes a computer lab and small software library. A peer tutorial component is also housed within the center to assist individuals or small groups in most subject areas.

SUPPORT
Minority Mentoring
SUPPORT monitors the academic progress of racially/ethnically underrepresented students at Mansfield University.

SUPPORT services include academic workshops, developmental academic advising, to include group and individual sessions, and appropriate referrals to other supportive services, e.g. counseling, tutoring, career services, and faculty office hours. Peer, faculty, and alumni mentors are also available, as a major component of the program. SUPPORT also offers an interactive, informational web site and a Minority Alumni Network.

SUPPORT is designed to increase the likelihood for minority students to enjoy academic success, healthy personal growth and to help each student successfully navigate the academic systems that drive Mansfield University.

Services for Students with Disabilities
The Office of Students with Disabilities (SSD) is the main advocate for students with disabilities who request academic support services at the University. It is our goal to assist you in gaining appropriate and reasonable accommodations that will aid you in pursuing a meaningful college experience.

After submitting pertinent documentation, we will attempt to address all reasonable accommodations appropriate to your needs. Current accommodations include, but are not limited to, special residence hall living requests, on-campus transportation, early academic scheduling, a variety of testing accommodations, note takers, readers, interpreters, assistance in acquiring "Books on Tape," and relocating class sections to aid access.

You are encouraged to contact the coordinator of services for students with disabilities upon acceptance to discuss any accommodations. Early notification is critical when seeking physical or academic course material accommodations.

Writing Center
The Writing Center is an integral part of the University's Writing Across the Curriculum program. Professional and peer-writing tutors help students develop effective writing and editing strategies that support the formal writing instruction presented in various courses throughout the curriculum.

Career Development and Placement Services

Career Development provides an opportunity for student self-evaluation, occupational skills and interests evaluation, and vocational outlook opportunities. A career library is also available.

The Placement Service helps students find meaningful employment upon graduation. Job vacancies, civil service opportunities, and teacher vacancies are publicized to seniors and alumni who are registered with the Career Development and Placement Office. On-campus interviews are scheduled and conducted by representatives of business, industry, public schools and civil service agencies. Student placement credentials are available to potential employers upon mutual request. It is important, therefore, that students wanting interviews with potential employers, or who are applying for positions, be registered with the service and have credential folders complete. A placement service fee is charged following graduation.

This office also serves as a testing center for national testing programs relevant to students' future goals such as the Graduate Record Examination (GRE), Miller Analogies Tests (MAT), and the National Teacher Examination (NTE). Information on other testing programs is also available.

VI. STUDENT LIFE

RESIDENCE HALL LIVING

The community living environment, provided through our residence halls, enables you to gain invaluable educational and personal experiences. While residence hall living presents many opportunities and conveniences, it also challenges you to demonstrate appropriate behaviors and live within university and societal expectations.

We can accommodate 1,800 students in our five residence halls. To meet the interests of our diverse student body, a variety of housing options are available, including single sex, co-educational, wellness floors, and special interest housing. In addition, standard double rooms, three-room suites and single rooms (space available basis) are available. To help ensure a positive living environment, each hall is supervised by a full-time, live-in professional staff member who is assisted by student staff members who live on each residence hall floor.

Since our residence halls are homes away from home for our students, we have attempted to furnish and equip them to meet students' full needs. In addition to furniture, each room is equipped with cable TV hookup and there is computer network access and phone outlet for each student. Each residence hall has laundry facilities, computer labs, exercise/weight rooms, kitchenettes, study lounges, and comfortably furnished lounges for informal gatherings. You can also opt to rent lofts and microwave/refrigerator combination units. Our halls are the focal point for a variety of educational, recreational and social programs and activities.

Comprehensive information about residence hall living, on-campus residency requirements, and room assignments is in the university handbook, The Password, the residence life brochure, and our web site.

STUDENT ACTIVITIES

"Shaping Tomorrow's Leaders Through Involvement" is the motto of the Student Activities Office, recognizing that the university experience involves learning both in and outside of the classroom. To ensure a positive out-of-class educational experience, we offer a wide range of activities to supplement the in-class learning, to provide you with opportunities to gain valuable hands-on experience and to strengthen interpersonal skills. The Student Activities Office coordinates a variety of social, cultural, and recreational programs. A comprehensive listing of campus activities can be found on the "Calendar of Events" found on our web site.

STUDENT ORGANIZATIONS

We have over 100 active clubs/organizations and a wide variety of music ensembles, both vocal and instrumental, that provide outlets for student interests as well as opportunities for students to sharpen personal skills and strengthen both leadership and organizational skills. Many of the activities planned by these organizations are funded by student activity fees.

Although participation in student organizations provides opportunities for having fun, developing personal skills and gaining hands-on experiences, a practical advantage for students can be to enhance your personal portfolio which could be very valuable when entering the job market. The university encourages students to selectively become involved in these opportunities.

STUDENT CENTER

The Alumni Hall Student Center is a campus focal point for students to gather and relax. The Center contains space for a wide range of organized activities as well as

informal gatherings. The Center houses the bookstore, a food court, game room, the Martin Luther King Jr. Resource Center, meeting rooms, organization mailboxes, TV lounge, multi-purpose room, and offices for the Student Government Association, Community-Service, Mansfield Activities Council and College Community Services, Inc.

STUDENT GOVERNMENT ASSOCIATION

Student opinion and input into the operations of Mansfield University are valued and fostered. Our Student Government Association (SGA) provides a forum for discussion and an avenue for students to make change.

Under the umbrella of SGA, students serve on the Executive Board, Student Senate, and a wide range of university committees. Here, alongside faculty and staff, they are part of the decision-making process of the university.

ATHLETICS AND RECREATION

Mansfield University is a member of the National Collegiate Athletic Association (NCAA) and our 14 intercollegiate teams play at the Division II level.

Women's programs include soccer, field hockey, basketball, cross-country, swimming, softball, indoor track and track. Men's programs include football, cross-country, basketball, baseball, indoor track and track.

Our recreational sports program is for students who value athletic participation but at a less competitive and more social level. We provide a broad range of opportunities in men's, women's and coed events as well as multiple groups involved in aerobics. In addition, we have both indoor and outdoor facilities for organized as well as individual students participation. The Kelchner Fitness Center provides facilities for basketball, volleyball, badminton, indoor soccer, aerobics, racquetball and dance, and includes a well-equipped fitness room. Students may use the facilities individually, in groups, or as part of our recreational sports program.

HEALTH SERVICES

Primary medical care is provided at our clinic located on campus in Maple B. There is no additional cost for basic care beyond the health fee paid each semester. There is a fee, however, for specialized services such as tests and x-rays. Both the residence hall staff and University police are trained to deal with medical emergencies. Community ambulance service is available on a 24-hour basis to transport serious emergencies to local hospitals as required.

POLICE AND SAFETY SERVICES

The university Police Department, located in Doane Center, consists of a director, 10 commissioned police officers and 15-20 student patrol members. In addition to responsibilities for safety and police functions, the office handles registration of motor vehicles, registration and storage of hunting weapons, visitor parking permits and lost and found.

STUDENT POLICIES

EDUCATIONAL RECORDS CONFIDENTIALITY POLICY

We collect and maintain data and information about students for designated periods of time and for the express purpose of facilitating their educational development. We recognize the privacy rights of individuals, as guaranteed by the Family Rights and Privacy Act of 1974 and the Pennsylvania Right-to-Know Law of 1957. We attempt to balance those rights with the institution's need for information relevant to the fulfillment of its

educational missions. As such, the university has an approved policy on the confidentiality of student records which outlines all procedures that apply to the collection, maintenance and release of such records. Copies of this policy are on file in the library or may be obtained at the Student Affairs Office, 516 North Hall.

You should be aware that the following information is considered public information and may be made available without prior consent and is considered part of the public record of a student's attendance: name, address, phone number, date/place of birth, major, participation in activities/sports, weight/height of members of athletic teams, dates of attendance, degrees/awards received and most recent educational institution attended. Any student wishing to prevent the public disclosure of this information may request so by contacting the Office of Student Affairs prior to the close of the first week of classes of any given academic semester. Such a request, however, must be to prevent the public disclosure of all the aforementioned information.

SMOKING/TOBACCO POLICY

The Mansfield University policy on smoking and the use of smokeless tobacco is consistent with both the Pennsylvania Clean Air Act and policies established by the Board of Governors for the State System of Higher Education. Concerns with this policy or reports of violation of this policy should be directed to the Vice President for Administration and Finance.

1. Smoking or the use of smokeless tobacco products is not permitted in Mansfield University buildings, except in an area or individual office that has been designated as a smoking area. Classrooms, laboratories, reception areas, common areas, conference rooms or other places where classes, committees, or other public groups may convene are not to be designated as smoking areas. Entrances to buildings will be appropriately signed to indicate that smoking is permitted in designated areas.
2. The use of smokeless tobacco is only permitted in smoking areas. Users of smokeless tobacco products are to discard expectorant in toilets and not in common ash trays or common waste containers.
3. The Vice President for Administration and Finance (VP A&F) is responsible for the designation of smoking areas within buildings other than residence halls. Requests to a) designate a new or additional smoking area or b) to delete the designation of an area for smoking should be addressed to the VP A&F. The VP A&F shall make decisions on smoking area designations consistent with this policy after consulting, where appropriate, with other cabinet members and the Administrative Affairs Committee of the Faculty Senate.
4. Consistent with this policy, the All Residence Hall Council has policies on smoking and use of smokeless tobacco which are in effect for residence halls.

IDENTIFICATION CARDS

A university identification card (I.D.) is issued to students, faculty, and staff. I.D's are examined at the library, at athletic events, and at various campus activities. It must be carried at all times and shown upon request to authorized university personnel. Replacements and new I.D.'s are available for $10 in the CCSI Office, Alumni Student Center. ID's are also a student's meal card and can be used as a cash debit card.

DRUG AND ALCOHOL ABUSE

Mansfield University is an active member of the Network of Colleges and Universities Committed to the Elimination of Drug and Alcohol Abuse. The standards of the network have also been adopted by the Board of Governors of the State System of Higher Education as policy for all state universities.

We have the responsibility to provide a drug free environment where the use of alcohol and other drugs do not interfere with learning. For this reason, the possession, distribution, and/or use of alcohol and other drugs on the Mansfield University campus is prohibited. Persons violating this prohibition will face university disciplinary sanction, and/or arrest by university police. University disciplinary actions will include an educational component to encourage the individual's acceptance of the responsibility for his/her own choices and behavior.

Mansfield University will educate and provide information to the campus community for the purpose of preventing the abuse of alcohol and other drugs. The university will also provide counseling and referrals for persons with alcohol or other drug problems.

MOTOR VEHICLE REGISTRATION

Regulations pertaining to parking and vehicle use are available at the University Police Office, Doane Center, and are also distributed when registering your vehicle. All students and employees who operate a vehicle on campus must register the vehicle and display the appropriate decal.

ORGANIZATIONS

Advocacy Association

An organization of individuals who provide peer education in the areas of dating violence, sexual assaults, and sexual harassment. In addition, support is provided to students who may become victims of dating violence, sexual harassment or sexual assault.

All Residence Hall Council (ARHC)

ARHC is the governing body for the residence halls. Its purposes are to set hall policy, approve hall budgets, and to sponsor activities both in the halls and on a campus-wide level. ARHC is an active member of the National Association of College and University Residence Halls (NACURH). Delegates are sent to conferences on the local, regional, and national level. Membership is open to any student who lives in the residence halls.

Alpha Sigma Alpha

A national social sorority, Alpha Sigma Alpha's purpose is to assist college females in growing intellectually, spiritually, socially, and physically. Participation in the Special Olympics is our philanthropic project. Aspire, Seek, Attain is ASA's motto.

Alpha Sigma Tau

Alpha Sigma Tau is a national sorority emphasizing academics. A minimum 2.3 grade point average is necessary to participate. AST is involved in a variety of social service activities both with the local community and nationally. The motto is Active, Self-reliant, and Trustworthy.

American Choral Directors Association (ACDA)

The ACDA chapter at Mansfield University is affiliated with the National American Choral Directors Association. The purposes of the chapter are to provide an incentive for students to become more committed to the art of choral conducting at an earlier age; to provide learning opportunities outside the classroom; to provide useful services to the choral area and music department; to encourage student leadership and direct experience with Apeer motivated@ discovery of the choral art. Any Mansfield University student is welcome.

American String Teachers Association
The Mansfield student chapter of ASTA is an organization open to students who play string instruments. The organization promotes a high standard of string playing and teaching in the community, schools, orchestras and on campus.

Anime/Video Club:
This club is for those individuals who are interested in watching Japanese animation and playing video games.

Anthropology Club
The Mansfield University Anthropology Club welcomes students from all majors who have an interest in anthropology and archaeology. Interests in a broad range of social sciences, cultures, art and history are represented by the club members. The club participates in archeological digs and sponsors cultural events such as bringing Native American dancers and guest speakers to campus.

Aquaculture Club
This organization plans and provides educational programs and activities in the fields of fish culture and biology, including movies, slide shows, seminars and field trips.

Art Acquisition/Exhibition
This is a student committee working under the guidance of a faculty advisor. The committee plans monthly art exhibits on campus and oversees the university=s permanent art collection. It also schedules and implements student art exhibits and purchases art work for the permanent collection. Open to all interested students.

Art History Association
Any student interested in the field of art history is encouraged to join this organization. Promoting scholarly research in art history; fostering the intelligent understanding of art, art history and other cultures; and promoting professional news and information about art and art history are some of the purposes of this group.

Art Students Guild
The Art Students Guild's purpose is to elevate the standards and quality of art experiences and provide opportunities for exposure to art related fields. Members must attend and participate in a majority of the guild functions.

Badminton Club
The Badminton Club is made up of Mansfield University students and staff who have a common interest in competitive badminton. Club members represent the school at several regional tournaments each year and the Mansfield Club hosts a tournament of its own each February.

Billiards Club
This Club will take responsibility for its actions; they will do their part in the community. They deem it necessary for the congregating to be productive and to publicize the art and science that is the sport of Billiards. By creating events to entertain students, as well as educate, they will be motivating them to participate in school events.

Biology Club
The objectives of the Biology Club include advancing the level of biology knowledge,

providing an opportunity for interaction for students with an interest in biology and facilitating discussion on topics and careers in this field. The club accomplishes these objectives through meetings, discussions, educational programs and community service projects.

Black Student Union (BSU)
BSU is an academic and social support group for students interested in the promotion of the culture and interest of African-Americans, Hispanics, or other students of African descent. Activities are designed to encourage and motivate students to realize personal potential, achieve academically, and increase cultural knowledge.

Boxing Club
This club provides an opportunity for conditioning and competition that helps promote physical and mental well-being.

Campus Crusade for Christ
The Campus Crusade for Christ is one of several student groups on campus that provide opportunities for students to pursue interests and issues related to their spiritual needs and benefits.

Cedarcrest Hall Council
The Crest Council is the governing body for Cedarcrest Manor, a popular co-ed residence hall. The group is open to all residents of Cedarcrest Manor and consists of four officers, representatives from each floor, and residents who want to make a difference.

Cheerleaders
Cheerleading is open to any student with an overall 2.00 QPA. Up to 16 women and 16 men are chosen through tryouts. The football squad is selected in March and the basketball squad in October.

Chemistry Club
The Chemistry Club gives students an opportunity to become better acquainted with the field of chemistry. Members and the student body benefit from guest speakers, films, projects, and special programs.

Chi Alpha Epsilon Honor Society
This organization was formed to recognize the academic achievements of students admitted to college and universities through non-traditional criteria. Its purpose is to promote continued high academic standards, foster increased communication among its members and honor academic excellence for those students admitted to college via developmental programs.

Club Canada
Furthering awareness of the economic, political, cultural, historical and geographical aspects of Canada are the primary goals of this organization. Participation in discussions, debates, seminars, field trips, and cultural events are some of the ways club members accomplish their goals.

Computer Science Club and Student Web
This club is open to any student with an interest in computers. It will enhance the opportunities available to the student through guest speakers, field trips, and participa-

tion in the Pennsylvania Association of Computer and Information Science Educators (PACISE).

Council for Exceptional Children
The student chapter of Council for Exceptional Children is affiliated with the national conference. Membership in the chapter is open to all college students, especially those interested in working with exceptional children. There is a membership fee for joining on the national level, which includes a monthly journal, but it is free to all students for the local level. Members have opportunities to meet and talk with professionals in the field. Specific activities are planned which promote the pre-professional development of the members. Group activities include dances for individuals in residential facilities, state and national conferences, special Olympics, and guest speakers.

CATS (Creative Arts Therapy Sounding)
The Music Therapy Organization sponsors workshops, guest speakers, and representation at conferences in support of the profession of music therapy. It is affiliated with the National Association for Music Therapy Students and is open to anyone interested in music therapy.

Criminal Justice Club
This club's purpose is to promote interest and understanding of the criminal justice system. The organization, open to all interested students, provides the opportunity for members to meet with professionals in the areas of law enforcement, corrections, and the court system.

Debate Association
This organization provides extracurricular intercollegiate competition in the area of policy debate. Members research the year's current topic and travel to other colleges to compete. Any full-time Mansfield University student in good academic standing may participate.

Delta Zeta Sorority
Delta Zeta sorority members have the opportunity to interact with peers, strengthen self-confidence, achieve academic excellence, develop leadership potential, and help others through national and local philanthropies. Delta Zeta supports all Anti-Hazing Laws. A minimum 2.5 grade point average is necessary to join.

Eta Beta Tau
A co-ed, fine arts social service fraternity, Eta Beta Tau is involved in many of the social activities that occur on campus.

Family and Friends
An organization devoted to providing a safe, supportive, educational environment for the discussion of issues related to being a gay, lesbian or bisexual in today's world. Provides forums for the open discussion of any related topics and also to educate interested individuals as to the reality of homosexuality.

Fellowship of Christian Athletes
Open to all, FCA's mission is to present to athletes, coaches, and all whom they influence, the challenge and adventure of receiving Jesus Christ as savior and lord, serving Him in their relationships and in the fellowship of the church.

Flashlight
This is the student newspaper and is published weekly by Mansfield University students. A wide variety of service opportunities are available for staff members including reporting, typing, designing, selling and taking photographs. Additional staff are always welcome.

French Club
The purpose of this group is to stimulate ability and interest in the French Language, as well as French Culture and Literature.

Geography Club
The Geography Club furthers the diverse interests of geography majors, minors and other interested students. The club sponsors presentations and trips related to regional planning, environmental science and other aspects of geography.

Geology Club
The Geology Club promotes geology in the Mansfield area. It is open to all students and faculty. The Geology Club sponsors a variety of field trips and speakers. Members attend and participate in professional meetings.

German Club
This group seeks to recognize excellence in the study of German and to provide an incentive for higher scholarship. The organization aims to promote the study of the German language, literature, and civilization, and endeavors to emphasize those aspects of German life and culture which are of universal value and which contribute to man's eternal search for peace and truth.

Hemlock/Pinecrest Hall Council
This council consists of representatives of both residence halls. Meetings are held weekly and are open to all Hemlock and Pinecrest residents. They host semi-formals, picnics, parties, and tournaments for the residents.

History Club
Open to any interested student, the History Club=s purpose is to facilitate students= interest in history and to foster professional growth, as well.

Honors Association
Membership is open to any student in good standing in the university=s Honors Program. Its purpose is to plan and implement the social and cultural events of the association.

Interfraternity Council (IFC)
The Inter-Fraternity Council is the governing body of the social fraternities. Its purpose is to promote the best interests of the fraternity system and the university. IFC makes binding rules concerning fraternity policy, and enforces rules for rushing, pledging, intramurals, and scholarships. IFC promotes the spirit of cooperation among all fraternities and the highest ideals of fraternalism.

International Association of Jazz Educators
The purpose of this organization is to bring together those interested in jazz, rock and popular music and to provide opportunities for musical experiences and growth. IAJE is a sponsor of the annual Mansfield University Jazz Festival.

Judo Club
The objective of this club is to teach judo and provide opportunities to learn and practice judo.

Kappa Phi
Kappa Phi is a sisterhood strongly rooted in Christ. We are a nondenominational group of Christian university women. Our purpose is to provide opportunity and challenge to serve Christ through our lives.

Kayak Club
The purpose of this organization is to promote the sport of kayaking in a safe and fun manner. It is open to all students, Mansfield University personnel, and interested community members.

Lambda Alpha Epsilon
Lambda Alpha Epsilon is open to any student interested in the criminal justice field, either in the study of or employment in such areas.

Lambda Chi Alpha
Founded in the fall of 1973, this social fraternity is one of the oldest on MU's campus. You'll find its members in key campus organizations as the fraternity strives to meet its academic and service goals.

Lambda Pi Eta
The purpose of this organization is to recognize, foster and reward outstanding scholastic achievement in communication studies; to stimulate interest in the field of communication; to promote and encourage professional development among communication majors; to provide an opportunity to discuss and exchange ideas in the field of communication; to establish and maintain closer relationships and mutual understanding between speech communication studies faculty and students and to explore options for graduate education in communication studies.

Lambda Sigma
Lambda Sigma is a national honor society for sophomore men and women dedicated to fostering leadership, scholarship, fellowship, and the spirit of service among college students. They promote the interests of Mansfield University. The Alpha Epsilon chapter offers students opportunities for personal growth, leadership experience, and a sense of involvement in Mansfield University.

Latino Student Organization
LASO's purpose is to promote interest and awareness of the rich and diverse Hispanic/Latino culture and, through a broad range of activities, further Mansfield University's commitment to diversity and multi-culturalism.

Laurel Hall Council
LHC is the governing body for Laurel Manor and is responsible for various programming activities and hall improvement suggestions. LHC works in cooperation with ARHC. Each floor elects two representatives to the council each semester. Officers are elected from within the hall for a term of two semesters.

LEO Club of Mansfield University
The goal of this organization is to promote service activities among the youth of the

community which will develop the individual qualities of Leadership, Experience and Opportunity and to unite its members in friendship, fellowship and mutual understanding. The LEO Club is affiliated with Lions International.

Mansfield Activities Council (MAC)
MAC plans programs and activities for the entire university community, including movies, concerts, coffeehouses and cultural affairs, as well as feature arts and forums. MAC also assists other university organizations in programming.

Mansfield International Student Organization
This club was created by the Mansfield University international students. While membership is open to all interested students, American students are especially encouraged to join. With the rich and diverse cultures of its members from all over the world, the organization is unique and has much to offer educationally, socially and culturally.

Maple Hall Council
Maple Hall Council benefits Maple Hall and the campus. The council consists of representatives living on each male and female floor in the building. Members plan activities, fund raisers and represent students in the campus and residence hall decision-making process.

Mathematics Club
The purposes of the Math Club are to promote communication among students and faculty and to encourage participation in activities related to mathematics. Activities sponsored by the Math Club include field trips, speakers, and social events in addition to assisting the department in various ways.

Mountaineer TV Productions
Purposes of the TV Club include exposing members to the world of TV and TV production, promoting an exchange of ideas with respect to TV production and promoting a cooperative attitude between faculty members and students in the Communication and Theatre Department.

MU Dramatists
This organization was created to stimulate interest in the field of dramatics and to encourage the creative ability of its members.

MU XI Literary Society
An organization to stimulate and foster appreciation of language and literature and to give encouragement to creative and critical writing. Through its literary magazine, MU XI, it seeks to benefit, not only its members, but the entire university community.

Mansfield University Nurses Association:
The purpose of this organization is 1) to provide each member with the opportunity to contribute to the growth of the organization by encouraging participation as an individual and as members. 2) to assist each member in achieving professional and social growth through participation in this organization as well as similar organizations in area, state and national level and 3) to develop an interest in recruitment to nursing and to this school.

Music Educators National Conference
MENC helps promote contact between students interested in the field of music education and music educators on the local, state and national levels.

National Alliance of Saxophonists
NASA is a student run organization that is part of a national organization which operates to further the composition and performance of saxophone music.

National Art Educators Association
The purpose of this chapter is to provide an effective transition from art education preparation to professional practice. To maintain a high standard of quality art education and the visual arts on campus and in the community. To gain greater insight and perspective about the teaching of art and contemporary concepts in art education and the visual arts. Sponsor service projects such as speakers, symposia, exhibitions, etc. Promote an exchange of ideas in substantive art education and the visual arts. To promote art education and all areas of the visual arts as a career choice.

Non-Traditional Student Organization
Since significant numbers of Mansfield University students commute to campus and/or are sometimes, older students who have been away from the formal educational environment for a period of time, the goal of this organization is to attempt to provide opportunities for these students to become a more integral part of the Mansfield University community.

Panhellenic Council
Panhellenic Council is the governing body for all sororities. It is executive, legislative, and judicial. The branches compile the rules and regulations by which the sororities abide. Panhellenic Council sponsors Rush Week, the Scholarship Cup, and the Panhellenic Handbook. In cooperation with the Inter-Fraternity Council (IFC), Panhellenic co-sponsors Greek Week.

Phi Alpha
An honor society for students interested in the study of history and the promotion of the importance of history. Membership is by invitation and involves meeting set criteria.

Phi Beta Lambda
Phi Beta Lambda is a national business fraternity associated with Future Business Leaders of America (FBLA). Phi Beta Lambda operates Greek T's and More, a business on campus which provides members with experience and understanding of how a business operates. Phi Beta Lambda is also responsible for Career Seminar Day, a major annual event on campus.

Phi Beta Sigma
Phi Beta Sigma fraternity embraces the principles of brotherhood, scholarship, and service which are crystallized in the fraternity motto Culture for service and service for humanity.@

Phi Eta Chi
The Phi Eta Chi chapter of Phi Alpha Honor Society is an organization eager to promote a closer bond among students majoring in social work through the promotion of humanitarian goals and ideals. Phi Alpa fosters high standards of education for social

workers and invites into membership those who have attained excellence in scholarship.

Phi Mu Alpha Sinfonia
The primary purpose of this fraternity shall be to encourage and actively promote the highest standards of creativity, performance, education, and research in music in America. Further purposes shall be to develop and encourage loyalty to the Alma Mater, to foster the mutual welfare and brotherhood of students of music, to develop the truest fraternal spirit among its members, and to instill in all people an awareness of music's important role in the enrichment of the human spirit.

Pi Lambda Theta
Pi Lambda Theta is an honor society and professional association in education. As an honor society, its purpose is to recognize persons of superior scholastic achievement and high potential for professional leadership. As a professional association, its purpose is to stimulate independent-thinking educators who can ask critical questions to improve educational decision-making.

Phi Mu Delta
Originally established as the local fraternity Alpha Omega Delta, Phi Mu Delta national fraternity colonized a chapter on the Mansfield University campus in the fall of 1997. A member of the Greek System and Inter-Fraternity Council, this social fraternity is committed to fostering an environment of mutual respect, friendship and academic excellence.

Phi Sigma Pi
Phi Sigma Pi has the distinction of being Mansfield's first fraternity. This national honor fraternity is described as being one-third academic, one-third service, and one-third social. To pledge Phi Sigma Pi, one must have a 3.0 cumulative grade point average and be at least a second semester freshman. Phi Sigma Pi welcomes any man or woman who is concerned with the ideals of knowledge, training, and friendship.

Philosophy Club
Promoting philosophical activities on campus, the Philosophy Club sponsors trips, lectures, panel discussions and films on a broad variety of subjects. It also publishes Synapse, a student magazine of philosophy and opinion that has appeared annually since 1979.

Physics Club
Some of the objectives of the members of the club are to advance the level of physics knowledge and to provide a forum for discussing recent physics discoveries, careers in physics and other related topics.

Pi Kappa Delta
Pi Kappa Delta's purpose as a fraternity is to stimulate progress in and to further the interests of intercollegiate speech activities and communication in an effort to provide functional leadership training for life.

Pre-Law Association
Our primary purpose is to provide information to students who plan to attend law school. Guest speakers and field trips benefit both members and non-members.

Psi Chi
Psi Chi is the national honor society in psychology. It provides academic prestige to its initiates by the mere fact of membership. To be considered, one must be a psychology or human relations major, have a minimum of a B average, and 9 semester credit hours in psychology.

Psychology Club
The purpose of this organization is to advance interest in and knowledge of psychology and to encourage, stimulate, and maintain scholarship of the individual members in all fields.

Public Relations Society
The Public Relations Society is open to, and interested in all students. We offer students the chance to generate creative ideas and put those ideas into action, to better our community on and off campus.

Saddle Club
This club is open to all students from beginning to advanced riding levels. Grooming, saddling, and trail riding are club activities. We also participate in field trips and other activities. Activities are based on the interests of the members.

Sigma
Service, to both the university community and community at large, and strengthening the relationships between the two are the primary purpose of this organization.

Sigma Alpha Iota
Sigma Alpha Iota is an international music fraternity for women whose ideals are high standards of musicianship, scholarship, sisterhood, and character. Any woman in the music department who is under private musical instruction, has at least 6 credits in music, has a 2.5 academic average, and a B in her major applied area, is eligible to pledge membership.

Sigma Tau Gamma
Established in 1965, this is the oldest social fraternity still active on the Mansfield University campus. Sig Tau is active in service projects, campus activities and its members can often be found in student government, finance committee and other key campus organizations.

Sigma Zeta
As the national honorary science and mathematics society on campus, Sigma Zeta recognizes outstanding academic achievement in the natural sciences and mathematics. It also provides an opportunity for social and educational interaction among students sharing common academic interests and career goals.

Ski and Snowboard Club
The Ski and Snowboard Club's interest is in the pursuit of the sport and its intrinsic values such as recreation, exercise, the exhilaration of being outdoors and the developing of a life-long physical and social activity. The Ski Club organizes weekly trips to local ski areas as well as a week long trip to a major United States ski area over semester or spring break. The club negotiates special lift ticket rates, provides transportation, and operates a fully equipped, up to date, ski rental shop.

Social Work Club
The Social Work Club is open to all Mansfield University students. It is an integral part of the department and seeks to foster dialogue between the faculty and the students. The club meets regularly to determine members' attitudes and feelings regarding policy, requirements, curriculum. It is a vehicle through which students are exposed to the professional world of human services in general and professional social work in particular.

Sports Nutrition Majors' Club
The purpose of this organization is to stimulate interest in the area of Sports Nutrition and to provide career and workshop information for students.

Student Alumni Ambassadors
This program helps extend the university's mission, increases its visibility and promotes quality. Ambassadors serve as good-will ambassadors for the university, as a host / hostess for special university events, and they provide a vehicle through which future alumni leaders are cultivated.

Student Association Nutrition and Dietetics
This organization is open to anyone interested in dietetics and/or food service management. Members learn about their future professions through invited speakers, educational field trips and bi-monthly meetings. Members of Mansfield S.D.A. are also members of the Pennsylvania Student Dietetic Association and are eligible to be members of the American Dietetic Association.

Student Athletic Advisory Committee
The purposes of this organization is a) To facilitate the total development of student athletes; b) Open lines of communication between male and female athletes, coaches, faculty, and administration; c) Be an advocate for specific student athlete needs; d) Develop an awareness of the responsibilities of student athletes on and off the University campus and e) Review N.C.A.A. legislative proposals and obtain student athlete input.

Student Government Association
The Student Government Association is the elected governing body representing Mansfield's students. SGA is comprised of a senate, with one senator for each 100 students, and an executive committee, consisting of a president and a vice president. This body represents and promotes student issues and concerns with the faculty and administration and is a good way to become involved.

Student Nurses Association of Pennsylvania
The purpose of S.N.A.P. is a) to assume responsibility for contributing to nursing education in order to provide for the highest quality health care, b) to provide programs representative of fundamental and current professional interest and concerns, and c) to aid in the development of the whole person and his/her professional role and his/her responsibility for the health care of all people.

Student PSEA
To develop among college students preparing to teach: (a) an understanding of the teaching profession through participation in the work of the local, state, and national education associations; (b) to provide leadership training and experiences; (c) to plan

activities that can be coordinated with other existing chapters= programs; (d) to provide opportunities to observe and work with citizen groups for the welfare of children and public education; (e) to seek actively higher standards of teacher education; (f) to stress the importance of careful selection of persons admitted to teacher education institutions with emphasis on character, personality, and scholarship.

Students in Free Enterprise (SIFE)
The purposes of this organization shall be: 1) To teach others an understanding of how market economies and businesses operate; 2) To help businesses to use our knowledge to better themselves, their community, and their country; 3) To promote individual ideas and teamwork among individuals associated with SIFE; 4) To build a partnership between Mansfield University SIFE and businesses in society. All students and alumni of Mansfield University can be members of SIFE.

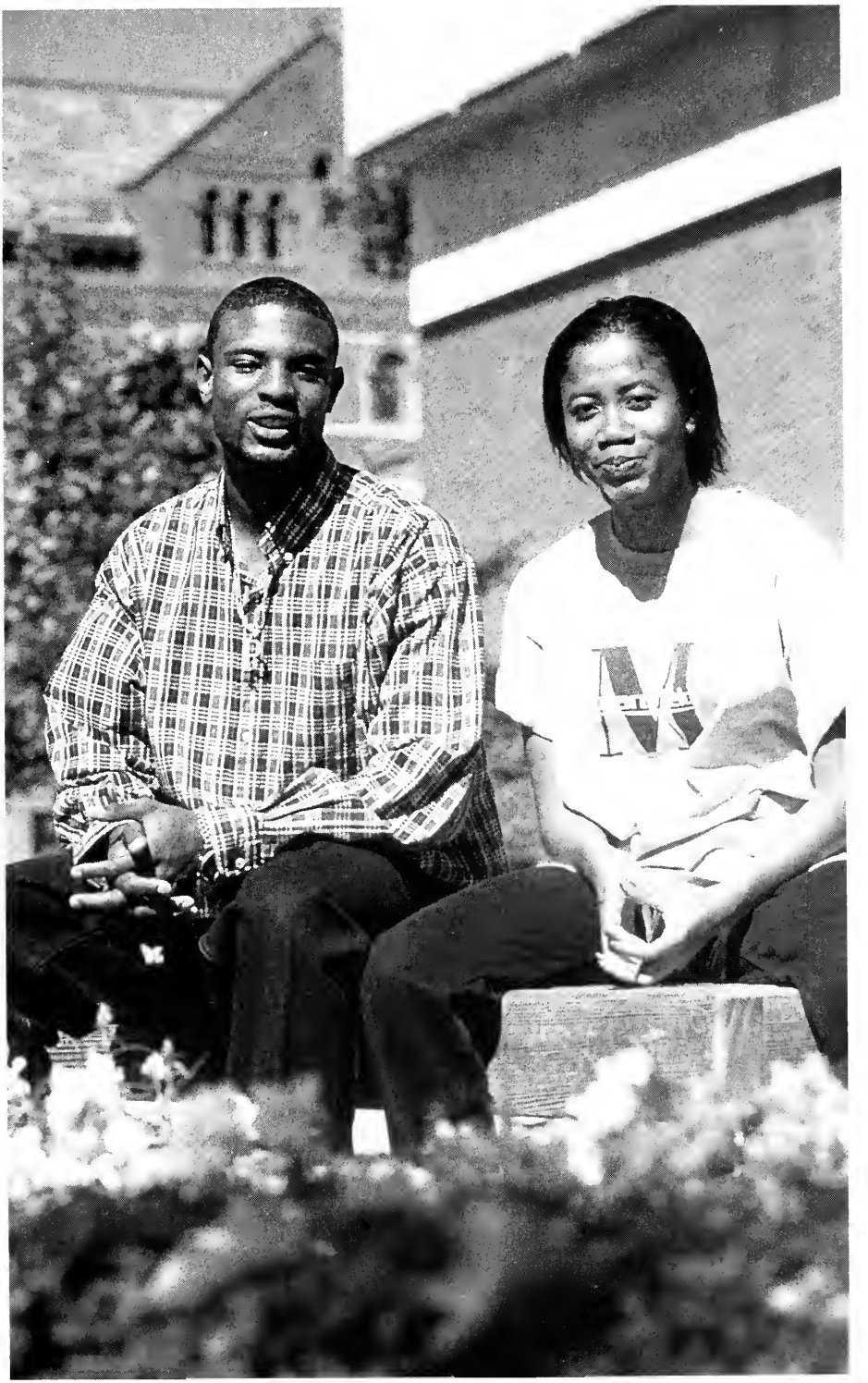
Tau Beta Sigma
Tau Beta Sigma is a national honorary band sorority that promotes and supports collegiate bands and band activities. Opportunities exist for members to gain in such areas as leadership, musical achievement, and promotion of worthwhile projects. Eligibility is based on a QPA of at least 2.5 and participation in the Concert Wind Ensemble, Symphonic Band, Jazz Band, or Orchestra.

Travel Club
The purpose of this organization is to provide a learning travel experience, once a semester, and to gather knowledge about the process of planning group travel.

Tubists Universal Brotherhood Association
A worldwide organization of musicians whose purpose is to maintain a liaison among those who take a significant interest in the instruments of the tuba and euphonium family-their development, literature, pedagogy and performance.

WNTE-FM
Music Radio 89 is dedicated to providing educational, informative and entertaining programming for the campus and community. Radiating at 89.5 megacycles, WNTE is a 115 watt educational FM station, licensed by the Federal Communications Commission. With main studios and offices located in the lower level of South Hall, WNTE welcomes all interested students to join in the fun of broadcasting.

Zeta Tau Alpha
Zeta Tau Alpha is a women's social fraternity. Zetas always strive for academic excellence, while maintaining a high social standard of conduct. Individual interests include a variety of well-rounded activities: sports, music, cheerleading, student government, and community service, among others. ZTA is also proud to support the Susan G. Komen Breast Cancer Foundation.



VII. ACADEMIC PROGRAMS

Mansfield University offers 72 four-year baccalaureate programs in the liberal arts and professional studies, 45 minors, and 7 two-year associate degree programs as well as 6 masters degree programs.

General Education

Bachelor Degree Programs

Accounting, see Business Administration
Anthropology, see Social Work, Anthropology and Sociology
Applied Statistics and Computer Data Analysis
Art Education
Art, Studio
Art History
Biology
Biology, Cell and Molecular Concentration
Biology, Education
Biology, Environmental Science Concentration
Biology, Fisheries
Business Administration, Accounting Concentration
Business Administration, Business Administration Concentration
Business Administration, International Business Concentration
Business Administration, Management Concentration
Business Administration, Marketing Concentration
Chemistry, Chemistry Concentration
Chemistry, Biochemistry Concentration
Chemistry, Education
Communication
Computer Information Science, Computer Science Concentration
Computer Information Science, Information Systems Concentration
Computer Information Systems, A.S.
Criminal Justice Administration
Criminal Justice Administration, A.S.
Early Childhood and Elementary Education
Earth and Space Science Education
Economics (B.A. and B.S.)
Elementary Education
Elementary Education and Special Education, Inclusive
English Literature
English Education
French
French Education
Geography
Geography, Environmental Science Concentration
Geography, Mapping Technology Concentration
Geography, Regional Planning Concentration
Geography/Mapping Technology A.S.
History
History: Social Studies (for certification in Citizenship Education)
Honors Program
Honors Program, Nursing Track
Human Resource Management, Psychology
International Business, see Business Administration
International Studies, Political Science, Interdisciplinary/International Studies
Journalism, see Mass Communication
Liberal Studies
Management, see Business Administration
Mass Communication, Broadcasting Concentration
Mass Communication, Journalism Concentration
Mass Communication, Public Relations Concentration
Mathematics
Mathematics Education
Medical Information Coding, A.A.S.
Medical Technology
Medical Transcription, A.A.S.
Music
Music, Elective Studies in Business
Music, Education
Music, Performance
Music Therapy
Nursing

Nutrition and Dietetics
Philosophy
Physics with Physics Concentration or Pre-Engineering Concentration
Physics Education
Political Science
Social Studies Comprehensive, Political Science Concentration
Pre-Engineering, see Physics
Psychology
Public Relations, see Mass Communication
Radiology Technology, A.A.S.
Regional Planning, see Geography and Geology
Respiratory Therapy, A.A.S.
Social Work
Sociology/Anthropology
Spanish
Spanish Education
Special Education
Special Education and Elementary Education, Inclusive
Sports Nutrition
Statistics, see Applied Statistics
Theatre
Travel and Tourism

Minors
Accounting
African-American Studies
Anthropology
Art
Biology
Business Administration
Canadian Studies
Chemistry
Communication
Computer Science
Creative Writing
Criminal Justice
Economics
English Literature
Environmental Studies
Forensic Science
French
General Computing
Geography
Geology
German
Gerontology
History
Information Systems
International Studies
Latin American Studies
Marketing
Mathematics
Music
Nutrition
Philosophy
Physics
Political Science
Pre-Law
Professional Writing
Psychology
Psychology of Human Development
Regional Planning
Social Welfare
Sociology
Spanish
Statistics
Theatre
Travel and Tourism
Women's Studies

GENERAL EDUCATION

Philosophy

The objective of the general education component of an undergraduate degree is to provide students with a foundation for lifelong learning and to enable them to function as responsible citizens in a rapidly changing world, consistent with the traditions of a liberal education.

General Education is designed, therefore, to enable students to continue to learn independently of formal classroom instruction. It extends throughout the undergraduate experience and into campus and community life. General Education encourages students to develop their abilities to observe, analyze and resolve problems, essential skills in a pluralistic and global environment. Finally, General Education makes students aware of the concept of ethical and moral responsibility to self and society.

General Education complements major course work and assists students in taking their proper place in society by helping them comprehend humankind; its cultures and history, the philosophies by which it lives, the means by which it communicates, and the arts and sciences which better its existence.

Program Overview

There are two types of courses in General Education: Core and Group Distribution Requirements.

Core Courses (16 credits)

The Core Courses are designed to contribute to students' knowledge of the human experience in a variety of ways. Having completed the Core Courses, a student will be able to comprehend the breadth and depth of ideas related to human activity of both mind and body.

Student Learning Outcomes:

Students will demonstrate:

- Knowledge of at least one of the varying forms of artistic expression
- Enhanced oral communication skills
- Enhanced written communication skills
- Knowledge of behaviors that promote personal well-being.

Courses:

General Education Core

UNV	100	First-year Experience Seminar (1 credit)
COM	101*	Oral Communication
ENG	112W*	Composition I
ENG	313W**	Composition II

Fine Arts (3 credits)

ARH	101	Introduction to Art
MU	101	Introduction to Music
THT	110	Introduction to Theatre

Wellness (3 credits)

BUS	202	Personal Finance
DIT	101	Personal Nutrition
DIT	211	Introduction to Nutrition
DIT	220	Nutrition and Exercise
DIT	300	Cultural Nutrition and Food
HPE	100-199	

HPE	340	First Aid and CPR
MEN	331	Marching Band
NUR	402	Women's Health
NUR	433	Health Promotion and Disease Prevention Strategies
PSY	421	Death and Dying

*All students should take these courses during their first year.

**ENG 313W must be passed with a grade of "C-" or better.

#Nursing degree students must be currently CPR certified before attempting any clinical course or complete HPE 164 when attempting to complete the wellness requirement.

Group Distribution Requirements

General Education distribution requirements are satisfied through completion of courses in the Liberal Arts and Sciences disciplines. Students must satisfy the minimum requirements in each of the six following groups:

Group 1. Humanities (6 credits)

Students completing courses in the humanities acquire an understanding of the historical and philosophical traditions that shape the world. Courses examine historical and philosophical issues critically and comparatively through reading and discussing fundamental texts from the world's traditions.

Courses:

Canadian Studies		
CDN	101	Introduction to Canada
Honors		
HON	100	Humanities Honors I
HON	101	Humanities Honors II
History		
HST	111	Western Civilization I
HST	112	Western Civilization II
HST	113	The World in the Twentieth Century
HST	201	American History Through the Civil War
HST	202	American History – Reconstruction to the Present
HST	210	Herstory – The American Side of Women's Past
HST	220	World War II
HST	226	Film as History
HST	265	History of Sports in America
HST	295	Topics in History
Philosophy		
PHL	201	Introduction to Philosophy
PHL	202	Contemporary Moral Problems
PHL	230	Introduction to Logic
PHL	280	Philosophy of Religion
PHL	300	Philosophy of the Arts
PHL	340	Ethics
PHL	380	Health Care Ethics
Women's Studies		
WS	100	Introduction to Women's Studies

Group 2. Languages and Literature (6 credits)

Foreign Languages

Students completing foreign language courses will have an appropriate level of skill in speaking, reading, writing, and listening to the target language.

Foreign Languages

Any course in the Foreign Languages.

Literature

Students completing literature courses will have a knowledge of literary texts – their genres, literary devices, historical and cultural background, significance for readers today – and the analytical tools needed to work with these texts.

Courses:

English

ENG	115	Introduction to Literature
ENG	203	Readings in Ancient Literature
ENG	204	Readings in World Literature
ENG	207	Readings in British Literature
ENG	208	Readings in American Literature
ENG	220	Special Topics in Literature
ENG	224	Introduction to Linguistics
ENG	225	English Grammar
ENG	226	History of English Language
ENG	281	Introduction to Linguistics
ENG	305	Comparative Literature
ENG	320	Special Topics in Literature
ENG	326	Women's Literature
ENG	327	African American Literature
ENG	328	Lesbian and Gay Literature
ENG	329	Regional Literature
ENG	332	Nature Writing
ENG	352	Shakespeare
ENG	376	Major Genre

Group 3. Mathematics (3 credits)

Students completing MA-prefix courses develop an ability to understand and to utilize numerical data and mathematical methods for analysis and problem solving.

Courses:

All MA Prefix courses except:

MA	090	College Algebra
MA	304	History and Philosophy of Mathematics

Group 4. Natural Sciences (6 credits)

Students completing courses in the natural sciences experience scientific experimentation through laboratory exercises, focus on the nature of scientific reasoning, discovery, and invention through the systematic exploration of basic concepts. Students will complete at least one laboratory course.

Courses:

Astronomy

AST	105	The Exploration of the Solar System
AST	106	One Possible Universe
AST	108	Observing the Autumn Sky
AST	109	Observing the Winter Sky

AST	110	Observing the Spring Sky
AST	111	Observing the Summer Sky
Biology		
BI	110	Zoology
BI	130	Botany
BI	251	Tropical Marine Biology
BSC	101	General Biology
BSC	102	Contemporary Biological Problems
BSC	103	Environmental Biology
BSC	104	Human Biology
BSC	119	Human Anatomy
BSC	120	Human Physiology I
BSC	121	Human Anatomy and Physiology I
BSC	122	Human Anatomy and Physiology II
BSC	271	Microbiology for Health Sciences
Chemistry		
CHM	101	Introduction to Chemistry
CHM	102	Organic and Biochemistry
CHM	103	Chemistry and the Environment
CHM	105	Drugs and How They Work
CHM	110	Survey of Chemistry, Introductory, Organic, and Biological
CHM	111	General Chemistry I
CHM	112	General Chemistry II
Geology		
GEL	102	Environmental Geology
GEL	121	Physical Geology
Honors		
HON	107	Macro Physical Science
HON	108	Micro Physical Science
Physics		
PHY	151	Conceptual Physics I
PHY	152	Conceptual Physics II
PHY	191	Physics I
PHY	192	Physics II
PHY	210	General Physics I
PHY	211	General Physics II
Science		
SCI	104	Forensic Science
SCI	107	Macro Physical Science
SCI	108	Micro Physical Science

Group 5. Social Sciences (9 credits)

Students completing courses in the social sciences examine the structure and organizing principles of human societies, including their psychological and cultural dimensions, as well as their economic, social, and political foundations.

Courses:

Anthropology		
ANH	101	Cultural Anthropology
ANH	102	Physical Anthropology: Human Evolution
ANH	250	Anthropology of Gender

ANH	280	Anthropological Linguistics
Economics		
ECO	101	Principles of Macroeconomics
ECO	102	Principles of Microeconomics
ECO	204	History of Economic Thought
ECO	205	Contemporary Economic Problems
Geography		
GEG	101	World Regional Geography
GEG	102	Human Geography
GEG	111	Physical Geography
GEG	122	Environmental Issues
GEG	380	Geography of the U.S. and Canada
GEG	381	Geography of Pennsylvania
Political Science		
PSC	100	Introduction to Politics
PSC	201	American Politics
PSC	204	State and Local Politics
PSC	210	World Politics
PSC	212	Comparative Politics
PSC	235	Research Methods
PSC	301	Participation and Elections
PSC	312	Canada, Mexico, and the US
PSC	333	Modern Ideologies
PSC	402	President and Congress
Psychology		
PSY	101	Introduction to General Psychology
PSY	203	Telephone and Survey Research
PSY	210	Psychology of Family Relations
PSY	212	Human Sexuality
PSY	225	Leadership Skills
PSY	290	Life Span Development
PSY	292	Child Psychology
PSY	321	Adolescent Psychology
PSY	325	Advanced Leadership
Sociology		
SOC	101	Introduction to Sociology
SOC	121	Contemporary Social Problems
SOC	203	Telephone Survey Research
SOC	232	American Family Systems
SOC	300	Men in Society
SOC	302	Community
SOC	306	Interracial Seminar
SOC	321	Futuristic Society
SOC	322	Sociology of Aging
SOC	415	American Values in Conflict
SOC	460	Sociology of Health and Medicine

Group 6. General Education Elective (9 credits)

Any courses, regardless of level (100-400), from the same disciplines approved for Distribution Group Requirements (Groups 1 through 5) may be used as a General Education Elective. Any Art History (ARH) or Art (ART), Communications (COM), Music

(MU), or Theatre (THT) course may also be used as a general education elective. Introductory courses in certain professional departments are approved as an acceptable General Education Elective. If this area is then selected as a major, the course must be replaced with another General Education or Professional course. A Professional Course may be selected from the following approved courses:

BI	392	Fish Management
BUS	130	Introduction to Business and Management
CIS	103	Introduction to Microcomputers
CJA	100	Introduction to the Administration of Criminal Justice
ED	100	Schools and Society
RPL	102	Introduction to Regional Planning
SPE	101	Introduction to Special Education
SWK	101	Human Services
TRT	102	Introduction to Travel and Tourism

Global Awareness (G)

Global awareness opens doors into varied cultures and furthers an understanding of our complex world. It considers the perspectives of peoples from cultures and circumstances other than one's own, and the major challenges facing humankind requiring global cooperation, while also recognizing the phenomena that engender continued conflict and competition in an increasingly interdependent world.

All students will complete 3 designated Global Awareness (G) courses.

Transfer students have the following exceptions:

Students who transfer in 31-60 credits musts complete 2 "I" and 2 "G" courses.

Students who transfer in 61 or more credits must complete 1 "I" and 1 "G" course.

At least 1 "I" course must be at the upper level.

Associate Degree candidates must complete one "I" course and one "G" course.

Applied Associate Degree candidates must complete one "I" course.

Student Learning Outcomes:

Student will:

- Identify major global issues.
- Examine global issues from multiple perspectives.
- Examine the concepts of power, gender, race and class intra- and inter- culturally.
- Compare and contrast their own beliefs and attitudes with those of other national, cultural, racial, ethnic, gender, and religious groups.

Courses: List Subject to Change

All foreign language courses are Global

ANH	101	CDN	450	HST	420
ANH	250	CDN	490	HST	452
ANH	255	DIT	300	HST	471
ANH	260	HST	111	HST	487
ANH	301	HST	112	MA	304
ANH	305	HST	113	PHL	330
ANH	308	HST	220	PSC	210
ANH	350	HST	313	PSC	212
ANH	440	HST	330	PSC	312
ANH	480	HST	345	PSC	412
ARH	408	HST	366	PSC/HST	389
ARH	410	HST	377	SOC	101
CDN	101	HST	387		
CDN	370-380	HST	388		

Information Literacy (I)

Information Literacy is a fundamental component of the educational process in which a student learns how to think actively and critically about information. Courses designated as Information Literacy (I), require students to become skilled users of information sources in many locations and formats, thereby increasing their responsibility for their own learning.

All students will complete 3 designated Information Literacy (I) and 3 designated Global Awareness (G) courses. At least two "I" courses must be at the upper level.

Transfer students have the following exceptions:

Students who transfer in 31-60 credits musts complete 2 "I" and 2 "G" courses.
Students who transfer in 61 or more credits must complete 1 "I" and 1 "G" course. At least 1 "I" course must be at the upper level.
Associate Degree candidates must complete one "I" course and one "G" course.
Applied Associate Degree candidates must complete one "I" course.

Student Learning Outcomes:

Students will:

- Recognize the significance of information in solving everyday problems.
- Identify a wide variety of information resources (both format and source).
- Identify needed information to solve a given problem or understand an issue.
- Recognize distortion, and other misuses of information.
- Gather, synthesize, analyze, interpret, and evaluate information.
- Use information effectively to address a given problem or issue.
- Present information issues and solutions to others.

Courses: List subject to change

ANH	260	HST	303	HST	452
ANH	410	HST	307	HST	471
BI	496	HST	308	HST	496
CIS	310	HST	320	NUR	271
CJA	100	HST	330	NUR	361
COM	101	HST	333	PHL	423
DIT	211	HST	350	PSC	330
DIT	300	HST	366	PSC	402
DIT	316	HST	377	PSC	404
DIT	402	HST	387	SOC	307
DIT	420	HST	388	SOC	308
ED	320	HST	401	SWK	259
HST	226	HST	420	SWK	308
HST	290	HST	431		

WRITING ACROSS THE CURRICULUM (WAC)

The Writing Across the Curriculum program helps you become a competent writer through assignments in designated writing courses which require different conventions of purpose and audience, different formats and styles, and different kinds of writing for various disciplines. These writing courses are drawn from all areas of the curriculum and involve students in regular, frequent writing. Writing Across the Curriculum requirements are satisfied by completing ENG 112W, ENG 313W, and three writing-designated (W) courses, at least one of which must be an upper-level course.

Transfer students must complete ENG 112 and ENG 313 or transfer equivalent writing courses from another institution. Students who transfer in 1-30 credits must complete the normal three additional "W" courses. Students who transfer in 31-60 credits must complete two additional "W" courses (at least one must be at 260 level or above). Students who transfer in over 60 credits must complete one additional "W" course at

the 260 level or above.

Two writing across the curriculum courses are required in addition to ENG 112 for Associate Degree Programs.

Rules for General Education

1. All students must complete the core courses (16 credits).
2. ENG 313W must be passed with a grade of "C-" or better.
3. Bachelor of Music students must complete six credits in each of Groups 1 through 5 for a total of 30 credits in Distribution Group Requirements.
4. A maximum of four credits from the major discipline may be used to fulfill Distribution Groups 1-5. (Mathematics majors are exempt from this rule.)
5. No more than two courses with the same prefix may be used to complete Distribution Groups 1-5.
6. All students must complete at least one laboratory course in the Natural Science Group.
7. All students will complete 3 designated Writing Across the Curriculum (W) courses in addition to the ENG 112 and ENG 313 sequence, with the following exceptions:
   - Students who transfer in 31-60 credits must complete two "W" courses
   - Students who transfer in 61 or more credits must complete one "W" course

   At least one "W" course must be at the upper level.
8. All students will complete 3 designated Information Literacy (I) and 3 designated Global Awareness (G) courses, with the following exceptions:
   - Students who transfer in 31-60 credits must complete two "I" and two "G" courses
   - Students who transfer in 61 or more credits must complete one "I" and one "G" course
9. Courses may carry and count for more than one of the "W," "I," or "G" designations.
10. All Honors courses will count in the block appropriate to their content.

Associate Degree Students and General Education

Associate degree-seeking students must complete 11 credits within the core as follows:

ENG 112
COM 101
Fine arts course
One credit of Wellness
First-Year Seminar

All associate degree students must complete the required courses in at least three of the five distribution group areas.

Students seeking the AA degree must earn at least 20 credits within the distribution group areas. Students seeking the AS or AAS degree must earn at least 14 credits within the distribution group areas.

Undergraduate Degree Programs

ACCOUNTING (See Business Administration)

ANTHROPOLOGY (See Social Work, Anthropology, and Sociology)

APPLIED STATISTICS AND COMPUTER DATA ANALYSIS DEGREE PROGRAM

Offered by the Department of Mathematics and Computer Information Science
Professor Lienhard
Associate Professors D'Ortona (chairperson), Iseri, H., Krantz, Savoye, Schuerman, Werner, J.
Assistant Professors Haner, Phillips, Tan

In Statistics the department offers the program in Applied Statistics and Computer Data Analysis, leading to a B.S. degree. This degree leads to a variety of careers in the expanding field of statistics. There is also a minor in statistics.

PROGRAM REQUIREMENTS: Applied Statistics and Computer Data Analysis (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CIS	104	Computer Science I	3
CIS	203	Software for Business Applications	3
CIS	204	Computer Science II	3
CIS	301	Data Structures	3
CIS	303	Computer Networks	3
CIS	340	Database Systems	3
ENG	230	Writing for Business	3
MA	125*	Introduction to Statistics I	3
MA	126*	Introduction to Statistics II	3
MA	170*	Fundamental Concepts of Calculus	3
MA	314*	Applied Probabilityand Statistics	3
MA	315*	Applied Regression Analysis	3
MA	316*	Analysis of Variance and Design of Exper	3
MA	317*	Statistical Process Quality Control	3
		Total semester hours	42

ART DEGREE PROGRAMS

Offered by the Department of Communication, Theatre and Art
Professor Kutbay
Assistant Professor Cunningham (assistant chairperson)
Instructor Alden, Whitehouse

The Art Department offers three baccalaureate degrees: B.S.E. in Art Education, B.S. in Studio Art, B.A. in Art History, and an M.Ed. in Art Education at the Graduate Level. The department also has certification for Art Educators.

Art Education is structured to guide prospective teachers to meet general education

requirements, to develop skills in basic studio areas, and to provide a rich background in art history, aesthetics, theory, psychology, and the philosophy of art education. Upon satisfactory completion of the program, the graduate is qualified to teach art in the elementary and secondary schools.

The following courses should be taken during the first year:

ARH	101	Introduction to Art;
PSY	101	General Psychology;
Art	241	Color and Design; and
Art	210	Drawing.

Art Education

Art Education majors must meet the QPA requirements in effect in the Commonwealth of Pennsylvania at the time they are admitted to the professional education program (after completion of 48-semester-hours) at the time of student teaching, and at graduation. Also at this point of admission to the professional education programs, they must also have a negative TB tine test, pass the Act 34 State Police and Act 151 Child Abuse clearances, and complete the following academic requirements: six hours of math; three hours of English composition; three hours of English literature: pass the Praxis I exam. They conclude these educational experiences with student teaching during their senior year. Education majors must complete all basic studio and methods courses before student teaching. The Art Education program offers professional experiences throughout the four-year program.

See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Art Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ARE	388	History and Philosophy of Art Education	3
ARE	390	Art Curriculum and Teaching in Elementary Education	3
ARE	393	Art Curriculum and Practical Application in Secondary Schools	3
ARE	400	Student Teaching	12
ARH	101	Introduction to Art	3
ARH	331	History of Modern Art	3
ARH	xxx	Choice	3
ART	201	Painting	3
ART	210	Drawing	3
ART	231	Printmaking	3
ART	241	Color and Design	3
ART	251	Jewelry	3
ART	261	Waterbase Media	3
ART	271	Ceramics	3
ART	281	Sculpture	3
ART	295	Crafts	3
ART	300	Visual Studies in Aesthetic Experiences	3
ART	345	Fibers	3
ART	365	Computer Art	3
ART	xxx	Art Electives	6
ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
PSY	101*	Introduction to General Psychology	3
SPE	275	Inclusion of Diverse Learners	3
		Total semester hours	84

Studio Art

Studio art majors acquire hands-on experiences in several media, including concentrations in drawing, painting, printmaking, ceramics, jewelry, sculpture, fibers, computer and crafts. These courses are balanced with academic courses in art and general liberal arts courses. Students have opportunities to display their works on and off campus. Potential occupations range from being a freelance artist to working for a design firm. Large and small companies and government agencies have artist designers on their staffs. The growing field of video uses artists and there are many careers in medical, scientific and other types of technical illustration. By choosing courses in computers, business, or the sciences, students can further multiply their career options.

PROGRAM REQUIREMENTS: Studio Art (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ARH	102	Survey of Art	3
ARH	325	History of Modern Art	3
ARH	xxx	Electives	9
ART	201	Painting	3
ART	210	Drawing	3
ART	231	Printmaking	3
ART	241	Color and Design	3
ART	251	Jewelry	3
ART	261	Waterbase Media	3
ART	271	Ceramics	3
ART	281	Sculpture	3
ART	295	Crafts	3
ART	300	Visual Studies in Aesthetic Experiences	3
ART	345	Fibers	3
ART	365	Computer Art	3
ART	403	Seminar	1
One area of concentration			18
		I-Drawing, Painting & Printmaking	
		II-Ceramics, Jewelry, Sculpture & Fibers	
		III-Advertising Art	
PSY	101*	Introduction to General Psychology	3
		Total semester hours	73

Art History

Art history majors acquire a background in the historical and cultural origins of the visual arts, from cave painting to computer art. Some Art History courses include Ancient and Medieval Art, Art of the Renaissance, History of Prints, Oriental Art, History of African-American Art, and Native Arts of the Americas. This program is primarily preparation for graduate school, but with close advisement in selecting courses it also prepares its students for work in galleries, museums, writing in the art field, and other related careers.

PROGRAM REQUIREMENTS: Art History (B.A.): 120 s.h.

ARH	102	Survey of Art	3
ARH	xxx	Art Electives	21
ART	300	Visual Studies in Aesthetic Experiences	3
ART	403	Seminar	1
ART	404	Special Problems in Art	3
ART	xxx	Studio Art Electives	9
		Total semester hours	40

BIOLOGY DEGREE PROGRAMS

Offered by the Department of Biology
Professors Flesch (chairperson), Kirby, Maris, Meyer, Soderberg, Sternick
Associate Professors: Hensley

The Department of Biology offers three degrees and two concentrations leading to the baccalaureate degree. The department also offers a minor in biology.

Programs leading to the Bachelor of Science degree give a solid liberal arts background and a foundation of science courses in botany, zoology, cell biology, ecology, chemistry, physics and mathematics. With close advisement you may concentrate in any one of several areas: botany, physiology, ecology, and cellular biology, among others. A unique feature of all biology degrees is the requirement to complete an undergraduate research project. These programs meet the minimum requirements for medical schools. The biology program is excellent preparation for graduate school. Many biology graduates become technicians in hospitals and research laboratories. Others go into sales positions with medical and pharmaceutical supply companies, while still others find employment in the environmental and ecological fields.

Those students preparing for a career in medicine may meet the minimum requirements for medical, dental, chiropractic, veterinary, and physical therapy schools with proper course selection under the B.S. degree.

Biology

PROGRAM REQUIREMENTS: Biology (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110*	Zoology	4
BI	130*	Botany	4
BI	310-319	Choice	
		or	3-4
BI	330-339	Choice	
BI	350	Ecology	4
BI	351-359	Choice	3-4
BI	370	Cell Biology	4
BI	371-379	Choice	
		or	2-4
BI	490-495	Choice	
BI	390-399	Choice	
		or	
BI	450	Internship	
		or	1-12
BI	470-471	Choice	
BI	496	Seminar	1
BI	300/400	Electives	7-11
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
MA	231*	Calculus I	4
PHY	191*	Physics I	4
PHY	192*	Physics II	4
XXX	300/400	Open Electives	9
		Total semester hours	71-90

Biology, Cell & Molecular Concentration

The cell and molecular biology concentration is designed to educate students in contemporary biology emphasizing molecular interactions, cell development and functions. This concentration is the primary degree for medical school preparation. Mansfield University has agreements with the Philadelphia College of Osteopathic Medicine and Lake Erie College of Osteopathic medicine to accept up to ten and five students respectively per year if the student meets certain criteria. Also Mansfield University participates in the Pennsylvania State University's Primary Care partnership Program at the College of Medicine-Hershey Medical Center. MU has an affiliation with the Temple University School of Dentistry. This program has a strong emphasis on chemistry. Students learn to manipulate and use a variety of cell and molecular techniques important in present day research. Students selecting this track are qualified to enter the job market in biotechnology, pharmaceuticals, medicine, and the molecular biology of the environment.

PROGRAM REQUIREMENTS: Biology, Cell & Molecular Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110*	Zoology	4
BI	130*	Botany	4
BI	310	Physiology	
		or	3-4
BI	330	Plant Physiology	
BI	350	Ecology	4
BI	370	Cell Biology	4
BI	371	Microbiology	4
BI	372	Genetics	3
BI	373	Genetics Research	2
BI	374	Immunology	3
BI	376	Animal Histology and Basic Micro techniques	3
BI	300/400	Biology Electives	2-3
BI	496	Seminar	1
BI	497	Independent Study	2
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	321	Physical Chemistry I	4
CHM	341	Biochemistry	4
PHY	191*	Physics I	4
PHY	192*	Physics II	4
MA	231*	Calculus I	4
		Total semester hours	76-78

Biology Education

The secondary education (B.S.E.) program prepares the student to enter the teaching profession with certification in both biology and, with proper advisement, general science. Biology education majors are dual advised with the education department. Refer also to the education department information.

See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Biology Education (B.S.E.): 130 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110*	Zoology	4
BI	130*	Botany	4
BI	310	Physiology	4
BI	350	Ecology	4
BI	370	Cell Biology	4
BI	371	Microbiology	4
BI	372	Genetics	3
BI	496	Seminar	1
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3
ED	310	Content Area Reading	3
ED	313	Teaching Secondary Science	3
ED	320	Observation and Participation	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	2
GEG	111*	Physical Geography	
		or	3
GEG	122*	Environmental Issues	
HST	201*	American History Through the Civil War	
		or	3
HST	202*	American History - Reconstruction to the Present	
MA	125*	Introductory Statistics I	
		or	3-4
MA	232*	Calculus II	
MA	231*	Calculus I	4
PHY	191*	Physics I	4
PHY	192	Physics II	4
PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	
		or	3
PSY	321*	Adolescent Psychology	
SPE	275	Inclusion of Diverse Learners	3
		Total semester hours	107-108

Biology, Environmental Science Concentration

The environmental track is for students interested in environmental issues. Students receive a general overview of the field as well as practical skills. The program is designed to train scientists to look at environmental problems in an interdisciplinary way. Students will receive a solid base in the environmental field as well as related courses in the arts and sciences. Program graduates can expect employment opportunities with state and federal agencies or in the private sector.

PROGRAM REQUIREMENTS: Biology, Environmental Science

Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110*	Zoology	4
BI	130*	Botany	4
BI	310-319	Choice	3-4
BI	330-339	Choice	3
BI	371-379		
	or	Choice	2-4
BI	470-471		
BI	350	Ecology	4
BI	351	Limnology	3
BI	370	Cell Biology	4
BI	390	Biostatistics and Experimental Design	3
BI	496	Seminar	1
BI	497	Independent Study	1
BI	498	Seminar in Environmental Science	1
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
GEG	122*	Environmental Issues	3
GEG/GEL	340	Map and Air Photo Interpretation	4
MA	231*	Calculus I	4
PHY	191*	Physics I	4
PHY	192*	Physics II	4
	300/400	Elective	3
Select Four Courses:			12-14
CHM	311	Quantitative Analysis (4)	
CHM	332	Instrumental Analysis (4)	
GEG	321	Geomorphology (3)	
GEG	270	Geographic Information Systems (3)	
GEG/GEL	420	Remote Sensing (3)	
GEL	330	Hydrology (3)	
		Total semester hours	84-89

Biology, Fisheries

Mansfield University offers the only undergraduate fisheries degree in Pennsylvania and the most complete undergraduate fisheries program in the country. MU fisheries interns and graduates have been placed across the United States, establishing Mansfield as a major center for fisheries education. Graduates are, therefore, very competitive for employment and graduate school opportunities. This B.S. degree program is housed within the Biology Department and provides extensive course work in the three major areas of fisheries science: aquaculture, fisheries biology, and fisheries management. Unique features of the program include a summer internship, field courses, and a required research project. Cooperative education and research agreements with the U.S. Geological Survey and the Pennsylvania Fish and Boat Commission are integral components of the fisheries program at Mansfield University. Graduates of the program meet the requirements for certification as Associate Fisheries Scientists by the American Fisheries Society. With a year of organic chemistry, the fisheries major will have a minor

in chemistry. The chemistry minor, Genetics (BI 372), and Biostatistics and Experimental Design (BI 390) are highly recommended for fisheries' graduates who plan to attend graduate school.

PROGRAM REQUIREMENTS: Biology, Fisheries (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110*	Zoology	4
BI	111	Fish Culture I	3
BI	112	Fish Culture II	3
BI	130*	Botany	4
BI	314	Ichthyology	3
BI	315	Fish Pathology	3
BI	350	Ecology	4
BI	351	Limnology	3
BI	352	Management of Small Impoundments	3
BI	353	Management of Streams and Large Impoundments	3
BI	370	Cell Biology	4
BI	371	Microbiology	4
BI	392	Human Dimensions in Fish Management	3
BI	450	Internship	6
BI	491	Aquaculture Research	2
BI	496	Seminar	1
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	311	Quantitative Analysis	4
CHM	332	Instrumental Analysis	4
MA	231*	Calculus I	4
PHY	191*	Physics I	4
PHY	192*	Physics II	4
		Total semester hours	82

BUSINESS ADMINISTRATION DEGREE PROGRAMS

Offered by the Department of Business and Economics
Professors Kutty, Solan, Yacovissi
Associate Professors Carpenter, Dugan, Gaballa, Ghods, Welch (Chairperson)
Assistant Professor Havalchak

Most aspects of life are touched in some way by the business world: retailing, education, banking services, real estate, health care, and many others. Some of the career choices of Mansfield University Business and Economics graduates are accountants, CPA, CMA, professional salespersons, bank managers, government economists, financial planners, advertising executives, health service administrators, hotel sales and marketing managers, and meeting and conference planners. If these careers sound interesting, the study of Business and Economics at Mansfield University will open up the world of business to you.

The department offers baccalaureate degree programs in business and economics. The blend of general education and professional business education provides students with much needed skills, knowledge, values and ethics needed in today's business environments.

Concentrations within the business administration degree include: Accounting, General Business, International Business, Management, and Marketing. The Accounting emphasis provides students with a strong background in business, as well as in accounting. Accounting students can step into a diverse range of career and graduate school options. Students entering the General Business emphasis are advised to discuss their goals with their academic advisor who will help them choose courses that will prepare them to be competitive in their specific area of business. The International Business emphasis builds understanding and appreciation for the global environment. The Marketing emphasis takes a solid business core as a foundation and adds a variety of marketing courses that prepare students for career opportunities in marketing related disciplines.

There is flexibility built into the design of the four-year degree programs to permit internships and minor studies. There is room to meet the individual needs and interest of students in the course work they select.

The Department offers minors in Accounting, Business Administration, Marketing, Economics, and Travel and Tourism. The Department also offers two-year degree programs in Accounting, Business Administration and Travel and Tourism. The two-year programs are designed to be transferable to the four-year track should students decide to pursue the four-year degree.

Business Administration

PROGRAM REQUIREMENTS: Business Administration Programs

All students with a concentration in Accounting, General Business, International Business, Management, or Marketing must take the following core classes:

CORE:

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
BUS	230	Management Principles	3
BUS	330	Marketing	3
BUS	349	Quantitative Business Analysis	3
BUS	350	Operations Management	3
BUS	380	Managerial Finance	3
BUS	410	Business Law I	3
BUS	490	Business Policy	3
CIS	203	Software Business Applications	3
ECO	101*	Principles of Macroeconomics	3
ECO	102*	Principles of Microeconomics	3
MA	125*	Introduction to Statistics I	3
MA	170*	Fundamentals of Calculus	
		or	3-4
MA	231*	Calculus I	
SOC	101*	Introduction to Sociology	3
		Total semester hours for Core	45-46

CONCENTRATIONS:

Business Administration, Accounting Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	310	Intermediate Accounting I	3
ACC	311	Intermediate Accounting II	3
ACC	320	Advanced Accounting I	3

ACC	350	Cost Accounting I	3
ACC	390	Introduction to Federal Tax Accounting	3
ACC	400	Auditing	3
ECO	311	Money and Banking	3
Electives - Choose two from:			6
ACC	314	Automated Accounting Systems	
ACC	351	Cost Accounting II	
ACC	380	Topical Seminar	
BUS	333	International Financial Management and Economics	
BUS	441	Financial Statement Analysis	
		Total semester hours for Concentration	27

Business Administration, Business Administration Concentration (B.S.) 120 s.h.

Electives: Eighteen hours of 300- or 400-level major-related electives 18

Business Administration, International Business Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BUS	403	Business and American Foreign Policy	
		or	3
PSC/HST	415	Modern American Diplomacy	
BUS	422	International Marketing	3
ECO	333	International Economics	3
		Total semester hours for Concentration	9

Business Administration, Management (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BUS	302	Managerial Decision Making	3
BUS	360	International Management	3
BUS	451	Behavioral Approach	3
		Total semester hours	9

Business Administration, Marketing Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BUS	415	Marketing Management	3
BUS	422	Topical Seminar/International Marketing	3
CIS	203	Software Business Applications	3
Electives - Select four courses from the following:			12
BUS	332	Promotion in Marketing (3)	
BUS	334	Marketing Research (3)	
BUS	370	Salesmanship (3)	
BUS	420	Topical Seminar/Marketing for Non-Profit Organizations (3)	
BUS	421	Topical Seminar/Marketing Channels of Distribution (3)	
BUS	423	Topical Seminar/Industrial Marketing (3)	
BUS	424	Topical Seminar/Sales Force Management (3)	
BUS	425	Topical Seminar/Current Marketing Problems (3)	
		Total semester hours for Concentration	21

CHEMISTRY DEGREE PROGRAMS

Offered by the Department of Chemistry and Physics
Professors Ramasamy (chairperson), Sidler
Associate Professors Ambrosio, Chester, Davis, Ganong, Vayansky
Assistant Professor Kozacko

The Department of Chemistry and Physics offers two programs that lead to the baccalaureate degree with a major in chemistry. Minors in Chemistry, Physics, and Forensic Science are available as further options.

The B.S. degree in Chemistry is structured after the standards of the American Chemical Society and provides excellent preparation for advanced studies in medicine, dentistry, optometry, patent law, and related professions. Emphasis is placed on organic and inorganic chemistry, mathematics, and general education. Students who elect this degree are prepared to assume careers with food, pharmaceutical, oil, and chemical industries. Chemists are often involved in quality control, research, sales, monitoring employee environments, and agencies requiring analytical skills. Chemistry graduates are very competitive in the retail and wholesale professions. Over half of our chemistry graduates continue on to graduate school.

The B.S. degree in Chemistry also offers a Biochemistry concentration that recognizes the recent growth of the biotechnology industry and attention in all industrial sectors to biological problems. Students receive broad training in traditional areas of chemistry with additional emphasis in the area of cellular and molecular biology. Graduates are well-prepared for a changing job market or for further study in chemistry, biology, or professional disciplines such as medicine, dentistry, or pharmacy. Career opportunities are available in medicine, dentistry, pharmacy, pharmaceutical, biotechnology, food, and cosmetics industries.

Cooperative Education is an opportunity available to junior and senior chemistry majors who are enrolled in any of the B.S. or B.S.E. programs. Students accepted into the program gain valuable career experience, a salary, and up to a maximum of 9 credits toward graduation. To fulfill the requirements of this program, the student usually spends one semester plus one summer on location with a participating industry.

PROGRAM REQUIREMENTS: Chemistry (B.S.): 128 s.h.

All students with a concentration in Chemistry or Biochemistry must take the following core classes

CORE: 49 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	311	Quantitative Analysis	4
CHM	321	Physical Chemistry I	4
CHM	332	Instrumental Analysis	4
CHM	410	Seminar	1
CHM	410	Seminar	1
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	xxx*	Math Elective (MA 125 or higher)	3
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4
		Total semester hours for Core	49

CONCENTRATIONS:

Biochemistry Concentration: 21 s.h.

BI	370	Cell Biology	4
BI	xxx	Biology Electives (BI 310, BI 371, BI 372, BI 375)	6
CHM	322	Physical Chemistry II	
		or	4
CHM	431	Advanced Inorganic Chemistry	
CHM	341	Biochemistry	4
CHM	420	Qualitative Organic Chemistry	
		or	3
CHM	421	Advanced Organic Chemistry	
		Total semester hours for Concentration	21

Chemistry Concentration: 21 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CHM	322	Physical Chemistry II	4
CHM	420	Qualitative Organic Chemistry	3
CHM	431	Advanced Inorganic Chemistry	4
CHM	xxx	Chemistry Electives (CHM 341, 421, 432)	6
MA	233*	Calculus III	4
		Total semester hours for Concentration	21

Chemistry Education

This B.S.E. degree leads to certification as a qualified chemistry teacher in secondary schools. In addition, the student receives a sufficiently extensive background to continue on to graduate school for further studies in chemistry. A student who completes the program will graduate with a provisional certificate to teach in the commonwealth of Pennsylvania. The current demand for high school chemistry teachers, both nationwide and in Pennsylvania, is high and the future looks bright for qualified people. In addition, the B.S.E. is the traditional entry-level degree for school administrative positions such as school counselors, principals, superintendents, and other educational specialists. Education and chemistry faculties are involved in advising students in this program. See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Chemistry Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	370	Cell Biology	4
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	311	Quantitative Analysis	4
CHM	321	Physical Chemistry I	4
CHM	332	Instrumental Analysis	4
CHM	410	Seminar	1
CHM	410	Seminar	1
CHM	xxx	Chemistry Electives	
		(CHM 322, 341, 352, 420, 421, 431, 432)	6
ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3

ED	310	Content Area Reading and Writing	3
ED	313	Teaching Secondary Science	3
ED	320	Observation and Participation	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	2
HST	201*	American History Through the Civil War	
		or	3
HST	202*	American History - Reconstruction to Present	
MA	231*	Calculus I	4
MA	125*	Introductory Statistics I	
		or	3-4
MA	232*	Calculus II	
PHY	191*	Physics I	
	or		4
PHY	210*	General Physics I	
PHY	192*	Physics II	
		or	4
PHY	211*	General Physics II	
PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	
		or	3
PSY	321*	Adolescent Psychology	
SPE	275	Inclusion of Diverse Learners	3
		Total semester hours	99-100

COMMUNICATION DEGREE PROGRAM

Offered by the Department of Communication, Theatre and Art
Professor Lapps
Associate Professors Carrish-Bulkley, Longoria, Wright, L. (chairperson) Young
Assistant Professor Crum
Instructors Alnor, Pieper

The Communication program provides students with an extensive background in human communication study. Graduates often seek employment in management, human services, health care, counseling, law or continue to graduate school with the objective of seeking education-based careers. Qualified students are encouraged to participate in the Department's successful internship program.
After the first semester all majors will have a prepared portfolio reviewed by the student's advisor prior to registration for the subsequent semester. Details on portfolio contents can be found in the student department handbook.

PROGRAM REQUIREMENTS: Communication (B.S.): 120 s.h.

COM	200	Oral Interpretation	3
COM	203	Voice and Articulation	3
COM	325	Interpersonal Communication	3
COM	360	Organizational Communication	3
COM	400	Communication Theory	3
COM	401	Persuasion	3
COM	425	Public Communication	3
COM	440	Communication Law	3
COM	xxx	Communication Electives	9
		Total semester hours	33

COMPUTER INFORMATION SCIENCE DEGREE PROGRAMS

Offered by the Department of Mathematics and Computer Information Science
Professors Lienhard
Associate Professors D'Ortona (chairperson), Iseri, H., Krantz, Savoye, Schuerman, Werner, J.
Assistant Professors Haner, Phillips, Tan

The Department of Mathematics and Computer Information Science offers two baccalaureate degree programs in Computer Science. One has a concentration in Computer Science and the other has a concentration in Information Systems. The Computer Science concentration focuses on the techniques and mathematical aspects of computing. The requirements are sufficient for majors to declare a minor in mathematics without any additional coursework.

PROGRAM REQUIREMENTS: Computer & Information Science, Computer Science Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CIS	104	Computer Science I	3
CIS	204	Computer Science II	3
CIS	206	Business Programming Concepts I	3
CIS	301	Data Structures	3
CIS	303	Computer Networks	3
CIS	306	Business Programming Concepts II	3
CIS	325	Operating Systems	3
CIS	330	Computer Organization	3
CIS	335	Assembly Language Programming	3
CIS	340	Database Systems	3
CIS	490	Computer Communications	3
XXX	xxx	Major Related Electives/300 or higher	12
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	260*	Discrete Structures	3
MA	314*	Applied Probability and Statistics	3
MA	2/3/400*	Math Electives	6
		Total semester hours	65

The Information Systems concentration focuses on the system and business aspects of computing. Many students also declare a business-related minor or, with a modest number of additional courses, complete a dual major in Business Administration. There are three minors available in Computing: Computer Science, Information Systems, and General Computing. Students who major in one concentration can minor in the other with some additional course work. Also, students majoring in Computer Science may choose to do a dual major with Information Systems. Students majoring in Information Systems may choose to do a dual major with a program in the Business and Economics Department. These dual majors and major/minor strategies can be valuable assets when entering the job market.

PROGRAM REQUIREMENTS: Computer & Information Science, Information Systems Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
ACC	xxx	Accounting Elective (300 level or higher)	3
BUS	130	Intro to Business & Management	
		or	
BUS	230	Management Principles	3
CIS	104	Computer Science I	3
CIS	204	Computer Science II	3
CIS	206	Business Programming Concepts I	3
CIS	301	Data Structures	3
CIS	303	Computer Networks	3
CIS	306	Business Programming Concepts II	3
CIS	308	Operations Research	
		or	
BUS	349	Quantitative Business Analysis	3
CIS	310	Systems Analysis	3
CIS	330	Computer Organization	3
CIS	340	Database Systems	3
CIS	401	Management Information Systems	3
CIS	490	Computer Communications	3
XXX	xxx	Major Related Electives (300/400 level)	9
MA	125*	Introductory Statistics	3
		or	
MA	314*	Applied Probability and Statistics	
MA	129*	Finite Mathematics	3
		or	
MA	260*	Discrete Structures	
		or	
MA	280*	Linear Algebra and Matrix Theory	
MA	170*	Fundamentals of Calculus	
		or	3-4
MA	231*	Calculus I	
		Total semester hours	66-67

An associate degree in Computer Information Systems is available.

PROGRAM REQUIREMENTS: Computer Information Systems (A.S.): 60 s.h.

(*courses with asterisk may also satisfy General Education requirement)

ACC	110	Introduction to Accounting I	3
ACC	111	Introduction to Accounting II	3
BUS	230	Management Principles	3
CIS	102	Introduction to Microcomputers	
		or	3
CIS	103	Visual BASIC programming	
CIS	104	Computer Science I	3
CIS	203	Business Software Applications	3
CIS	204	Computer Science II	3

CIS	303	Computer Networks	3
CIS	300/400	Computer Information Systems Electives	6
ECO	101*	Principles of Macroeconomics	3
		or	
ECO	102*	Principles of Microeconomics	
ENG	230	Writing for Business and Technology	3
MA	125*	Introduction to Statistics	3
PHL	230*	Introduction to Logic	3
		Total semester hours	42

CRIMINAL JUSTICE ADMINISTRATION DEGREE PROGRAMS

Offered by the Department of Criminal Justice Administration
Professor Ryan
Associate Professor Robarge (chairperson)
Assistant Professor Thornsley
Instructors: Judge John Leete, Judge John Mott, and Sergeant Bruce Stayments

The Department of Criminal Justice Administration offers programs of study leading to the following degrees: Bachelor of Science in Criminal Justice Administration, Associate of Science in Criminal Justice Administration, and a minor. CJA provides a systems-based background with a core curriculum covering the criminal justice areas of law enforcement, courts, corrections and juvenile delinquency.

Depending on a particular career interest, courses may also be selected from the following areas: police administration, investigation and interrogation, criminalistics, probation and parole, private security, organized crime, criminology, criminal law, and juvenile justice administration.

Upon departmental approval, internships can be taken at federal, state, or local criminal justice agencies anywhere in the United States.

Career areas: Our CJA graduates are employed by U.S. Immigration, DEA, FBI, Secret Service and U.S. Marshals Office and Federal Bureau of Prisons. Numerous graduates work in state and municipal law enforcement agencies, correctional facilities, probation, parole, juvenile justice, and private security settings. Select graduates have also been successful in graduate school and law school.

PROGRAM REQUIREMENTS: Criminal Justice Administration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

CJA	100	Introduction to Criminal Justice	3
CJA	200	Survey of Policing	3
CJA	201	Survey of Corrections	3
CJA	324	Judicial Criminal Process	3
CJA	395	Delinquency and the Criminal Justice System	3
CJA	490	Senior Seminar	3
CJA	xxx	Criminal Justice Administration Electives	21
PSC	xxx	Political Science Elective	3
PSY	xxx	Psychology Elective	3
SOC	xxx	Sociology Elective	3
		Total semester hours	48

PROGRAM REQUIREMENTS: Criminal Justice Administration (A.S.): 61 s.h.

CJA	100	Introduction to Criminal Justice	3
CJA	200	Survey of Policing	3
CJA	201	Survey of Corrections	3
XXX	xxx	Major Related Electives	12
PSC	xxx	Psychology Elective	3
PSY	xxx	Psychology Elective	3
SOC	xxx	Sociology Elective	3
		Total semester hours	30

EARLY CHILDHOOD AND ELEMENTARY EDUCATION DEGREE PROGRAMS

Offered by the Department of Education and Special Education
Professors: Cleland (chairperson), Straub (assistant chairperson), Brucklacher, Burns, Kyofski
Associate Professors: Fuller, Floyd, Lucero, Woolley
Assistant Professors: Benjamin, Dale, Wallace, Werner-Burke
Instructors: Moore

Two PA teaching certifications are available to prepare students for teaching in preschool or elementary school settings. Students major in elementary education and earn an elementary education degree, but they are prepared to apply for certification in both early childhood (N-3) and elementary (K-6) in this 128 credit program. This program combines coursework in elementary education with additional focused courses in teaching young children, ages 3-8.

In the early childhood courses there is an emphasis on a cooperative, hands-on approach to helping children learn. Students learn to plan instruction based on a knowledge of content and students, design classroom environments that promote learning, deliver instruction in effective and varied ways, and perform the professional responsibilities of teachers. Important early childhood topics include: child development, a healthy safe learning environment, developmentally appropriate curriculum, guiding children's behavior, family relationships, cultural and individual diversity, and professionalism. The early childhood and elementary program features field experiences throughout all four years, culminating in student teaching. Graduates of the program may pursue teaching positions in either preschool or elementary grades or teacher or director positions in child care centers. Many education majors also pursue graduate studies after graduation.

See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Early Childhood and Elementary Education (B.S.E.): 128 s.h.

PSY	101*	Introduction to General Psychology	3
ED	102**	Introduction to Education	3
ELE	150**	Introduction to Early Childhood (fall, sophomore year)	3
ED	205**	Educational Psychology	3
ELE	220**	Child Development	3
ED	260	Assessment in Education	3
ELE	263	Preschool Curriculum ages 3-5 (spring, sophomore year)	3

SPE	275	Inclusion of Diverse Learners	3
ELE	301	Observation & Participation – Elementary	3
ELE	362	Emerging Literacy (fall, junior year)	3
SPE	370	Early Childhood Disabilities (spring or summer, sophomore or junior year)	3
ELE	383	Teaching Elementary Reading and Literature I	3
ELE	384	Teaching Elementary Mathematics	3
ELE	386	Teaching Elementary Social Studies	3
ELE	387	Teaching Elementary Science	3
ELE	391	Behavioral, Social, and Emotional Issues	3
ELE	395	Creative Experiences in Elementary Teaching	3
ELE	403	Teaching Elementary Language Arts	3
ELE	405	Early School Curriculum ages 6-8 (spring or summer IA, junior year)	3
ELE	425	Teaching Elementary Reading and Literature II	3
ELE	400	Student Teaching	12
ELE	460	Professional Seminar	2
		Total semester hours	74

EARTH AND SPACE SCIENCE EDUCATION DEGREE PROGRAMS

Offered by the Department of Geography and Geology
Professor Dodson (chairperson)
Associate Professors Darby, King, Thorne

The B.S.E. in earth and space science or social studies (geography emphasis) prepares students for teaching at the middle to high school level. The two-year A.S. degree in geography/mapping technology provides practical, up-to-date skills for persons interested in computer generated mapping and geographic information systems (GIS).
See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Earth and Space Science Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

AST	105*	Exploration of the Solar System or	3
AST	106*	One Possible Universe	
BSC	101*	General Biology	4
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3
ED	310	Content Area Reading and Writing	3
ED	313	Teaching Secondary Science	3
ED	320	Observation and Participation – Secondary	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	2
GEG	111*	Physical Geography	3

GEG	122*	Environmental Issues	3
GEG	312	Weather and Climate	3
GEG/GEL	290	Map/ Air Photo Interpretation	4
GEL	102*	Environmental Geology	3
GEL	121*	Physical Geology	3
GEL	322	Historical Geology	3
GEL	361	Mineralogy/Petrology	3
MA	xxx*	Math Electives	6
PSY	101*	Introduction to General Psychology	3
PSY	290*		
		or	3
PSY	321*	Adolescent Psychology	
SCI	107*	Macro Physical Science	3
SCI	108*	Micro Physical Science	3
SPE	275	Inclusion of Diverse Learners	3
Select Two Courses:			6
GEG	415	Special Problems in Geography (3)	
GEG/GEL	321	Geomorphology (3)	
GEG/GEL	420	Remote Sensing (3)	
GEL	330	Hydrology (3)	
BI	354	Marine Biology (3)	
		Total semester hours	99

ECONOMICS DEGREE PROGRAMS

Offered by the Department of Business and Economics
Professors Kutty, Solan, Yacovissi
Associate Professors Carpenter, Gaballa, Ghods, Mitchell, Welch (Chairperson)
Assistant Professor Havalchak

The two degrees in Economics are designed to provide a strong quantitative and business background. The B.S. degree has a business component and is designed to facilitate a double major in Economics and Business Administration. The B.A., in keeping with academic policy, requires a minor program. A wide variety of minors is available to complement the B.A. in Economics.

PROGRAM REQUIREMENTS: Economics (B.A.) 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ECO	101*	Principles of Macroeconomics	3
ECO	102*	Principles of Microeconomics	3
ECO	301	Intermediate Macroeconomic Theory	3
ECO	302	Intermediate Microeconomic Theory	3
PSC	320	Topics in Public Policy	3
PSC	328	Political Economy	3
XXX	xxx	Major Related Electives	18
		Total semester hours	36

PROGRAM REQUIREMENTS: Economics (B.S.) 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
BUS	230	Management Principles	3

BUS	330	Marketing	3
BUS	380	Managerial Finance	3
		Business Electives	6
ECO	101*	Principles of Macroeconomics	3
ECO	102*	Principles of Microeconomics	3
ECO	301	Intermediate Macroeconomic Theory	3
ECO	302	Intermediate Microeconomic Theory	3
ECO	305	Econometrics	3
		Economics Electives	12
MA	125*	Introduction to Statistics I	3
MA	170*	Fundamental Concepts of Calculus	
		or	3-4
MA	231*	Calculus	
PSC	328	Political Economy	3
PSC	330	Public Policy	3
		Total semester hours	60-61

EDUCATION DEGREE PROGRAMS

Offered by the Department of Education and Special Education
Professors: Cleland (chairperson), Straub (assistant chairperson), Brucklacher, Burns, Kyofski
Associate Professors: Fuller, Floyd, Lucero, Woolley
Assistant Professors: Benjamin, Dale, Wallace, Werner-Burke
Instructors: Moore

Students will be admitted to the university as majors within each of the programs and designated as "teacher education majors" (TEM), but will be prohibited from advancing to certification status as "teacher education certification candidates" (TECC) until "gates" requirements have been met. TECC status will be required to take ED, ELE or SPE courses numbered 260 and above. See Teacher Education Certification Requirements on Page xx

CERTIFICATION REQUIREMENTS: Mansfield University teacher education programs are approved by the Pennsylvania Department of Education (PDE) and nationally accredited by the National Council for Accreditation of Teacher Education (NCATE). Candidates for teaching certification in Pennsylvania must meet state requirements described in Chapter 354 regulations. A description of requirements, policies, and procedures for teacher certification can be found in the catalog section entitled, "Teacher Education Certification." See page 54.

Elementary Education

The elementary education program at Mansfield prepares students for elementary teaching. The program is organized around the theme, "Teacher as Reflective Decision-Maker," and students learn to make instructional decisions that are grounded in accepted educational theory, research and practice. Students in the program learn to plan instruction based on a knowledge of content and their students, design classroom environments that promote learning, deliver instruction in effective and varied ways, and perform the professional responsibilities of teachers. The elementary education program features field experiences in schools throughout all four years of study culminating in student teaching in the senior year. A particular area of emphasis in the elementary education program is on the uses of children's literature to enhance elementary teaching in all curricular areas. Many education majors also pursue graduate studies after graduation.

See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Elementary Education (B.S.E.): 128

(*courses with asterisk may also satisfy General Education requirements)
(**pre-gate course – see "Teacher Education Certification" section)

PSY	101*	Introduction to General Psychology	3
ED	102**	Introduction to Education	3
ED	205**	Educational Psychology	3
ELE	220**	Child Development	3
ED	260	Assessment in Education	3
SPE	275	Inclusion of Diverse Learners	3
ELE	301	Observation and Participation - Elementary	3
ELE	383	Teaching Elementary Reading and Literature I	3
ELE	384	Teaching Elementary Mathematics	3
ELE	386	Teaching Elementary Social Studies	3
ELE	387	Teaching Elementary Science	3
ELE	391	Behavioral, Social, and Emotional Issues	3
ELE	395	Creative Experiences in Elementary Teaching	3
ELE	403	Teaching Elementary Language Arts	3
ELE	425	Teaching Elementary Reading and Literature II	3
ELE	400	Student Teaching	12
ELE	460	Professional Seminar	2
		Total semester hours	59

Inclusive Elementary and Special Education
(two PA teaching certifications)

This curriculum option gives students majoring in either elementary education or special education an opportunity to earn second certification in the other field. Although students must apply for admission to either elementary education or special education and earn just one degree, they complete a combined set of courses that prepares them to apply for teacher certification in both elementary (K-6) and special education (K-12). As school classrooms have been changing, more special education students are being educated alongside their same-age peers. Teachers need knowledge and skills in adapting instruction to meet the educational needs of all of their students. The 137 credit hour inclusive elementary and special education curriculum option features essential courses in both elementary and special education. Students learn to plan instruction, design effective classroom environments, teach and adapt instruction in effective ways, assess student learning, and perform professional responsibilities as both regular and special educators. Students completing the program student teach both in elementary education and special education assignments. Graduates of the program may pursue teaching positions in either elementary or special education. Many education majors also pursue graduate studies after graduation.

See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Inclusive Elementary and Special Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)
(**pre-gate course – see "Teacher Education Certification" section)

SPE	101**	Introduction to Special Education	3
PSY	101*	Introduction to General Psychology	3
ED	102**	Introduction to Education	3
ED	205**	Educational Psychology	3
ELE	220**	Child Development	3
SPE	270**	Mentally and Physically Disabled	3
SPE	275	Inclusion of Diverse Learners	3
SPE	280	Children in Need of Emotional Support	3
SPE	290	Learning Disabilities	3
SPE	300	Curriculum Development Adjustment	3
ELE	301	Observation & Participation – Elementary	3
ELE	383	Teaching Elementary Reading and Literature I	3
ELE	384	Teaching Elementary Mathematics	3
ELE	386	Teaching Elementary Social Studies	3
ELE	387	Teaching Elementary Science	3
SPE	351	Behavior Management	3
SPE	370	Early Childhood Disabilities	3
SPE	380	Assessment in Special Education	3
SPE	390	Methods for Individuals with Mild Disabilities	3
ELE	395	Creative Experiences in Elementary Teaching	3
ELE	403	Teaching Elementary Language Arts	3
ELE	425	Teaching Elementary Reading and Literature II	3
SPE	440	Methods for Individuals with Moderate/Severe Disabilities	3
ELE	400	Student Teaching	12
ELE	460	Professional Seminar	2
		Total semester hours	83

ENGLISH DEGREE PROGRAMS

Offered by the Department of Languages and Literature
Professors Koloski, Pifer, Sanders (chairperson), Sornberger
Associate Professors Barton, Blanco, Harris, Holtman, Murphy, Sullivan-Blum, Ulrich, Washington
Assistant Professors Doerksen, Keeth, Knee, Oyallon, Rashidi, Washington

Students majoring in English have the opportunity to study literature and practice various modes of writing to help them discover and articulate their ideas as completely and cogently as possible. Courses offered for the major emphasize critical thinking and problem solving as essential parts of the composing and interpreting process. Students pursuing the English curriculum receive training in the technique of literary analysis and are offered a broad background in the major and formal developments of English and American literature and language. In addition, students are provided with an intensive study of selected authors of diverse ethnic and cultural backgrounds and are introduced to major historical periods.

Students may pursue either a B.A. (Liberal Arts) or B.S.E. (Secondary English Education) program. The programs are designed to afford students an extensive exposure to the ideas, experiences, and forms of literary expression. Such a background in the analysis and interpretation of literature provides the B.A. major with a strong basis

for further graduate study in literature, as well as for careers in law, public relations, editing, communications, civil service, industry, and library science. The background in literature and analysis and work in the theory of writing coupled with professional studies provides the English B.S.E. major with a strong basis for a career in teaching English in a secondary school. (See The Teacher Education Certification Section, Page xx, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.)

The English department also offers four minors: Creative Writing, Literature, Professional Writing, and Women's Studies. Students in the English B.A. and B.S.E. programs must complete study of a foreign language through the 202 level. In addition, they may wish to complete a minor in Creative Writing, Professional Writing or Women's Studies as a way of adding a content emphasis to their undergraduate course of study. In planning a course of study, English majors must consult with their departmental academic advisor on a regular basis, since revisions in programs of study offered in whole or in part by the English department occur to both modify and expand existing requirements. English B.S.E. majors have an advisor in both the English department and the Education department and must consult regularly with both advisors. For both majors, ENG 115 Introduction to Literature should be completed during the freshman year.

PROGRAM REQUIREMENTS: English Education Major, (B.S.E.):128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

Core Requirements: 21 s.h.

ENG	130	Introduction to Literary Studies	3
ENG	225	English Grammar	3
ENG	226	History of the English Language	3
ENG	324	Composition Theory and Practice	3
ENG	333	Advanced Composition	3
ENG	352	Shakespeare	3
ENG	401	Seminar in Literary Studies	3

Distribution Requirements: 27 credits (at least 6 credits in pre-1800 literature)

ENG	268 or 269	British Survey I or II	3
ENG	278 or 279	American Survey I or II	3
Choose one British Period Course:			3
ENG	350	Old and Middle English Literature	
ENG	351	English Renaissance Literature	
ENG	356	Eighteenth Century British Literature	
ENG	357	British Romantic Literature	
ENG	359	Victorian Literature	
ENG	360	Twentieth Century British Literature	
Choose one American Period Course:			3
ENG	362	American Romanticism	
ENG	363	American Realism and Naturalism	
ENG	364	Twentieth Century American Literature	
Choose one World/Minority Course:			3
ENG	305	Comparative Literature	
ENG	307	Literature in English from Around the World	
ENG	326	Women's Literature	
ENG	327	African American Literature	
ENG	328	Lesbian and Gay Literature	
ENG	376	Major Genre: examine a particular genre: poetry drama, novel, film, Short fiction, nonfiction prose	

		(repeatable to 9 cr.)	
		or	3
ENG	385	Study of works of a single author or pair of authors (repeatable to 9 cr.)	
Education Related Classes			
ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3
ED	310	Content Area Reading and Writing	3
ED	312	Teaching Secondary English Language Arts	3
ED	320	Observation and Participation – Secondary	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	2
HST	201*	American History Through the Civil War	
		or	3
HST	202*	American History - Reconstruction to the Present	
PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	
		or	3
PSY	321*	Adolescent Psychology	
SPE	275	Inclusion of Diverse Learners	3
		Total semester hours	92

PROGRAM REQUIREMENTS: English Literature Major, (B.A.): 128 s.h.
Core Requirements: 12 credits

ENG	130	Introduction to Literary Studies	3
ENG	333	Advanced Composition	3
ENG	352	Shakespeare	3
ENG	401	Seminar in Literary Studies	3

Distribution Requirements: 27 credits (at least 6 credits in pre-1800 literature)

ENG	268 or 269	British Survey I or II	3
ENG	278 or 279	American Survey I or II	3
Choose one British Period Course			3
ENG	350	Old and Middle English Literature	
ENG	351	English Renaissance Literature	
ENG	356	Eighteenth Century British Literature	
ENG	357	British Romantic Literature	
ENG	359	Victorian Literature	
ENG	360	Twentieth Century British Literature	
Choose one American Period Course			3
ENG	362	American Romanticism	
ENG	363	American Realism and Naturalism	
ENG	364	Twentieth Century American Literature	
Choose one World/Minority Course			3
ENG	305	Comparative Literature	
ENG	307	Literature in English from Around the World	
ENG	326	Women's Literature	
ENG	327	African American Literature	
ENG	328	Lesbian and Gay Literature	

ENG	376	Major Genre: examine a particular genre: poetry drama, novel, film, Short fiction, nonfiction prose (repeatable to 9 cr.)	
		or	3
ENG	385	Study of works of a single author or pair of authors (repeatable to 9 cr.)	
ENG	xxx	Electives (ENG 224, 225, 226 or any of the department's upper division courses)	9
		Total semester hours	39

FRENCH DEGREE PROGRAMS

Offered by the Department of Languages and Literature
Professors Koloski, Pifer, Sanders (chairperson), Sornberger
Associate Professors Barton, Blanco, Harris, Holtman, Murphy, Sullivan-Blum, Ulrich, Washington
Assistant Professors Doerksen, Keeth, Knee, Oyallon, Rashidi, Washington

The Languages and Literature Department offers B.A. and B.S.E. degrees in French. (See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.)The opportunity to complete basic through intermediate Russian is also available. By graduation students will have taken at least 34 semester hours in their foreign language major. These include courses in structure, phonetics and pronunciation, culture and civilization, and literature. Some students complete dual majors and many opt for minors; the latter are available in French, German, Spanish, and Latin American Studies, all of which can prove to be an employment advantage. This is only natural in an ever more interdependent world where the ability to function in international communications is at a premium. The influence of Hispanic culture is growing in the U.S. while French is still spoken in many countries and German has wide application, especially in Europe.

We strongly encourage students to participate in Study Abroad programs and believe that such participation should be part of the preparation of all aspiring foreign language teachers. But the benefits accrue as well to others who avail themselves of such an opportunity: they not only have a better understanding of other cultures but are in a stronger position to use the knowledge they have acquired in the pursuit of their careers. To date, students have taken part in programs in Ecuador, France, Germany, Mexico, Spain and Russia. Mansfield University has an exchange program with Volgograd State University in Russia, with Freidrich-Schiller Universität in Germany, and has initiated a study abroad program with the Universidad Nacional in Costa Rica.

The foreign language laboratory has booths where students practice listening, comprehension and speaking skills. This facility is also equipped with several computer stations and has satellite receiver capability. In classrooms too, videos, slides, and maps are presented in various courses to enhance the learning/cultural environment and help provide a background for the appropriate language.

Foreign Language study is useful or necessary in various careers in government agencies, and provides an expertise often called upon in many areas of business, travel and tourism, journalism, criminal justice administration. geography, history, communications, political science, social work, and education.

The Languages and Literature Department also offers minors in French, German, Spanish and Latin American Studies.

PROGRAM REQUIREMENTS: French (B.A.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

FR	201*	Intermediate French I	3
FR	202*	Intermediate French II	3
FR	205*	Phonetics and Pronunciation	1
FR	300*	Conversational French and Civilization	3
FR	320*	Advanced French Structure	3
FR	330*	Survey of French Literature I	3
FR	331*	Survey of French Literature II	3
FR	xxx	French Electives	15
		Total semester hours	34

PROGRAM REQUIREMENTS: French Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3
ED	310	Content Area Reading and Writing	3
ED	311	Teaching Secondary Foreign Language	3
ED	320	Observation and Participation - Secondary	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	2
FR	201*	Intermediate French I	3
FR	202*	Intermediate French II	3
FR	205*	Phonetics and Pronunciation	1
FR	300*	Conversational French and Civilization	3
FR	320*	Advanced French Structure	3
FR	330*	Survey of French Literature I	3
FR	331*	Survey of French Literature II	3
FR	xxx	French Electives	15
HST	201*	American History through the Civil War	
		or	3
HST	202*	American History- Reconstruction to the Present	
PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	
		or	3
PSY	321*	Adolescent Psychology	
SPE	275	Inclusion of Diverse Learners	3
		Total semester hours	78

GEOGRAPHY and GEOLOGY DEGREE PROGRAMS

Offered by the Department of Geography and Geology
Professor Dodson (chairperson)
Associate Professors Darby, King, Thorne

Geography is a modern academic discipline concerned with interpreting the physical and cultural patterns and processes that shape our world. Geographers study a broad range of topics such as the conservation and management of natural resources, the ecological relationships of people and their surroundings, environmental disruptions, regional planning and economic development, computer cartography, and geographic information systems (GIS).

The geography major allows some freedom, with advisement, to tailor a program to individual needs and interests. The B.S. in geography (with optional concentrations in environmental science, regional planning, and mapping technology) can lead to a variety of careers in government and industry. Minors in geography, geology, and regional planning are also available and can provide important knowledge and skills to students majoring in a number of related fields. Many of our graduates also choose to enter graduate school.

PROGRAM REQUIREMENTS: Geography (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GEG	101*	World Regional Geography	3
GEG	102*	Human Geography	3
GEG	111*	Physical Geography	3
GEG	122*	Environmental Issues	3
GEG	270	Geographic Information Systems	3
GEG	280	Cartography	4
GEG	290	Map/Air Photo Interpretation	4
GEG	xxx	Geography Electives (upper level)	18
		Total semester hours	41

PROGRAM REQUIREMENTS: Geography, Environmental Science Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	350	Ecology	
		or	3-4
BI	351	Limnology	
CHM	101*	Introductory Chemistry	4
CHM	102*	Organic and Biochemistry	4
GEG	101*	World Regional Geography	3
GEG	102*	Human Geography	3
GEG	111*	Physical Geography	3
GEG	122*	Environmental Issues	3
GEG	280	Cartography	4
GEG	290	Map/Air Photo Interpretation	4
GEG	300	Geographic Research	2
GEG	312	Weather and Climate	3
GEG	465	Seminar in Environmental Science	1
GEG	xxx	Geography Electives (upper level)	6
RPL	102	Introduction to Regional Planning	3
Select four of the following courses:			12-13
BI	331	Local Flora (3)	
BI	350	Ecology (4)	
		or	
BI	351	Limnology (3)	
ENG	320*	Nature Writing (3)	
GEG	321	Geomorphology (3)	
GEG	415	Special Problems in Geography (3)	
GEG	420	Remote Sensing (3)	
GEL	102*	Environmental Geology (3)	
GEL	330	Hydrology (3)	

GEG	496	Internship (3)	
RPL	342	Land Use Policy (3)	
HPE	340	First Aid/CPR (3)	
		Total semester hours	58-60

PROGRAM REQUIREMENTS: Geography, Mapping Technology Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GEG	101*	World Regional Geography	3
GEG	102*	Human Geography	3
GEG	111*	Physical Geography	3
GEG	280	Cartography	4
GEG	290	Map/Air Photo Interpretation	4
GEG	300	Geographic Research	2
GEG	364	Geostatistics	3
GEG	270	Geographic Information Systems	3
GEG	420	Remote Sensing	3
GEG	430	Modern Cartographic Techniques	3
GEG	431	Seminar in Cartographic Programming	1
GEG	xxx	Geography Electives	9
Select three of the following courses			9
CIS	102	Visual Basic (3)	
CIS	104	Computer Science I (3)	
ENG	230	Writing for Business (3)	
ENG	330	Technical Writing (3)	
GEG	496	Internship (3)	
GEG/GEL	345	Web Based Cartography (3)	
ART	365	Computer Art (3)	
ART	465	Advanced Computer Art (3)	
		Total semester hours	50

PROGRAM REQUIREMENTS: Geography, Regional Planning Concentration (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GEG	101*	World Regional Geography	3
GEG	102*	Human Geography	3
GEG	111*	Physical Geography	3
GEG	280	Cartography	4
GEG	290	Map/Air Photo Interpretation	4
GEG	300	Geographic Research	2
GEG	364	Geostatistics	3
GEG	365	Urban/Economic Geography	3
GEG	270	Geographic Information Systems	3
GEG	430	Modern Cartographic Techniques	3
RPL	102	Introduction to Regional Planning	3
RPL	342	Land-Use Policy	3
RPL	494	Planning Seminar	3
RPL	496	Planning Internship	6
		Total semester hours	46

PROGRAM REQUIREMENTS: Geography/Mapping Technology (A.S.): 60 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GEG	101*	World Regional Geography	3
GEG	102*	Human Geography	3
GEG	111*	Physical Geography	3
GEG	280	Cartography	4
GEG	290	Map/Air Photo Interpretation	4
GEG	364	Geostatistics	3
GEG	270	Geographic Information Systems	3
GEG	430	Modern Cartography	3
GEG	431	Seminar in Cartographic Programming	1
		Total semester hours	27

GERMAN DEGREE PROGRAMS

Offered by the Department of Languages and Literature
Professors Koloski, Pifer, Sanders (chairperson), Sornberger
Associate Professors Barton, Blanco, Harris, Holtman, Murphy, Sullivan-Blum, Ulrich, Washington
Assistant Professors Doerksen, Keeth, Knee, Oyallon, Rashidi, Washington

The Languages and Literature Department offers B.A. and B.S.E. degrees in German. (See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.) The opportunity to complete basic through intermediate Russian is also available. By graduation students will have taken at least 34 semester hours in their foreign language major. These include courses in structure, phonetics and pronunciation, culture and civilization, and literature. Some students complete dual majors and many opt for minors; the latter are available in French, German, Spanish, and Latin American Studies, all of which can prove to be an employment advantage. This is only natural in an ever more interdependent world where the ability to function in international communications is at a premium. The influence of Hispanic culture is growing in the U.S. while French is still spoken in many countries and German has wide application, especially in Europe.

We strongly encourage students to participate in Study Abroad programs and believe that such participation should be part of the preparation of all aspiring foreign language teachers. But the benefits accrue as well to others who avail themselves of such an opportunity: they not only have a better understanding of other cultures but are in a stronger position to use the knowledge they have acquired in the pursuit of their careers. To date, students have taken part in programs in Ecuador, France, Germany, Mexico, Spain and Russia. Mansfield University has an exchange program with Volgograd State University in Russia, with Freidrich-Schiller Universität in Germany, and has initiated a study abroad program with the Universidad Nacional in Costa Rica.

The foreign language laboratory has booths where students practice listening, comprehension and speaking skills. This facility is also equipped with several computer stations and has satellite receiver capability. In classrooms too, videos, slides, and maps are presented in various courses to enhance the learning/cultural environment and help provide a background for the appropriate language.

Foreign Language study is useful or necessary in various careers in government agencies, and provides an expertise often called upon in many areas of business, travel and tourism, journalism, criminal justice administration, geography, history, communications, political science, social work, and education.

The Languages and Literature Department also offers minors in French, German, Spanish and Latin American Studies.

PROGRAM REQUIREMENTS: German (B.A.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

GER	201*	Intermediate German I	3
GER	202*	Intermediate German II	3
GER	205*	Phonetics and Pronunciation	1
GER	300*	Conversational German	3
GER	320*	Advanced German Structure	3
GER	330*	Survey of German Literature I	3
GER	331*	Survey of German Literature II	3
GER	335*	Proseminar: Deutschlandkunde	
		or	
GER	336*	Proseminar: Laender und Staedte	3
		or	
GER	360*	Proseminar: Twentieth Century German Literature	
GER	xxx	German Electives	12
		Total semester hours	34

PROGRAM REQUIREMENTS: German Education (B.S.E.): 128 s.h.

(*courses in asterisk may also satisfy General Education requirements)

ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3
ED	310	Content Area Reading and Writing	3
ED	311	Teaching Secondary Foreign Language	3
ED	320	Observation and Participation - Secondary	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	3
GER	201*	Intermediate German I	3
GER	202*	Intermediate German II	3
GER	205*	Phonetics and Pronunciation	1
GER	300*	Conversational German	3
GER	320*	Advanced German Structure	3
GER	330*	Survey of German Literature I	3
GER	331*	Survey of German Literature II	3
GER	335*	Proseminar: Deutschlandkunde	
		or	3
GER	336*	Proseminar: Laender und Staedte	
	or		
GER	360*	Proseminar: Twentieth Century German Literature	
HST	201*	American History through the Civil War	
		or	3
HST	202*	American History- Reconstruction to the Present	
PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	
		or	3
PSY	321*	Adolescent Psychology	
SPE	275	Inclusion of Diverse Learners	3
GER	xxx	German Electives	12
		Total semester hours	79

HEALTH, PHYSICAL EDUCATION AND RECREATION PROGRAMS

Associate Professors Evans (chairperson), Maisner, Sabol
Assistant Professors Schintzius
Instructor Falk

Students may complete health and physical education classes to satisfy the Wellness portion of the General Education Core Requirements. HPE courses include a two-credit health course (HPE 101), a three-credit First Aid and CPR (HPE 340), and a broad range of one-credit courses that emphasize fundamental skills and fitness, from aerobics to volleyball.

HISTORY DEGREE PROGRAMS

Offered by the Department of History and Political Science
Professor McQuaid
Assistant Professors Chua, Gaskievicz, Guenther (chairperson)

The Department of History and Political Science two history degrees: a B.A. in History, and a B.S.E. in Social Studies/History. We offer minors in history, political science, international studies, and environmental studies.

The past is a living, dynamic subject and very much a part of today. This program in the humanities provides a solid background in the methods and concepts of historical investigation and introduces students to the various schools of historical interpretation. It includes courses in American, European, and Third World history, as well as a wide variety of arts and sciences courses. The research and writing skills developed in this program open opportunities in many areas. History is excellent preparation for law school. Combined with the appropriate courses, it provides a good background for journalism. Producers of television shows, documentaries, and movies, with settings in the past, all have research staffs to insure historically accurate productions. History graduates work in such diverse careers as editing publications, management, foreign service, and museums.

PROGRAM REQUIREMENTS: History, (B.A.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

Choose two of the following in the World Civilization sequence:			6
HST	111*	World Civilization I (3)	
HST	112*	World Civilization II (3)	
HST	113*	World in the Twentieth Century (3)	
HST	201*	American History Through the Civil War	3
HST	202*	American History- Reconstruction to the Present	3
HST	290	Historical Methods	3
HST	401	History of Pennsylvania	
		or	3
HST	496	Seminar/Select Topics	
HST	xxx	Global History Electives	6
HST	xxx	United States History Electives	6
HST	xxx	European History Electives	6
		Total semester hours	36

PROGRAM REQUIREMENTS: Social Studies: History (B.S.E.): 129 s.h.

For certification in Citizenship Education. (See The Teacher Education Certification

Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.)
(*courses with asterisk may also satisfy General Education requirements)

ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3
ED	310	Content Area Reading and Writing	3
ED	315	Teaching Secondary Social Studies	3
ED	320	Observation and Participation – Secondary	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	2
SPE	275	Inclusion Diverse Learners	3
Choose two of the following in the World Civilization sequence			6
HST	111*	Western Civilization I	
HST	112*	Western Civilization II	
HST	113*	World in the Twentieth Century	
HST	201*	American History Through the Civil War	3
HST	202*	American History - Reconstruction to the Present	3
HST	290	Historical Methods	3
HST	401	History of Pennsylvania	
		or	3
HST	496	Seminar/Select Topics	
HST	xxx	Global History Electives	6
HST	xxx	United States History Electives	6
HST	xxx	European History Electives	6
PSC	201*	American Politics	3
PSC	210*	World Politics	3
ECO	101*	Macroeconomics	3
ECO	102*	Microeconomics	3
GEG	101*	World Geography	
		or	3
GEG	102*	Human Geography	
PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	
		or	3
PSY	321*	Adolescent Psychology	
MA	xxx	Math Electives	3
		Total semester hours	95

HONORS PROGRAM

The Honors Program at Mansfield University is a 24-credit multi disciplinary academic program that features innovative course work, challenging subjects, and opportunities for cultural enrichment. This program is designed for students with a strong record of academic achievement and desire for new learning experiences. The Honors Program enables students to explore subjects that interest them in greater depth than may be possible in traditional courses and it also allows students to apply their knowledge across academic fields. It is the goal of the Honors Program to provide students with the knowledge, skills, and opportunities to achieve their full potential during their academic career here.

The Honors Program offers a dynamic learning environment that includes small classes, unique courses, collaborative and individual research projects, and field-based edu-

cational experiences. All honors students are required to complete five specially designed core courses, two honors electives, and a senior honors research project. The senior project is an independent study capstone experience that is initiated by the student to explore an area of interest that transcends traditional academic disciplines.

Mansfield University is a member of the National Collegiate Honors Council (NCHC) and the Northeast Region National Collegiate Honors Council (NE-NCHC). Each April the NE-NCHC holds an annual conference that is open to all member institutions and their honors students. This conference provides an excellent opportunity for students to meet other honors students from colleges and universities in the Northeast U.S. and eastern Canada.

Each year two Mansfield Honors students are selected to participate in the Pennsylvania State System of Higher Education (SSHE) Summer Honors Program. This program combines two weeks of intensive course work at the host SSHE institution with off-site, field-based learning experiences. Recent Summer Honors Programs have featured international study in Oxford, Moscow, Vienna, and Tuscany.

Enrollment in Mansfield's Honors Program is by invitation. Incoming freshman with high class rank and board (SAT) scores are invited to accept early admission into the Honors Program. Freshman students who exhibit strong academic potential during their first semester are invited to join the program on the basis of faculty recommendation and interview with the program director. Freshmen who have completed their first semester and who have demonstrated excellence in their academic course work are invited to apply for admission into the program. Finally, any first year student can forward a written request to the Honors Program director to be considered for admission into the program.

Honors students must maintain a 3.0 (B) average in the honors courses and overall to remain in good standing in the program. Students who fall below this minimum acceptable standard will be placed on probation and given one semester in which to improve their grade point average. Every honors student is assigned an honors faculty advisor to ensure that they are making sufficient progress through the program.
All honors courses satisfy Mansfield University's General Education requirements. There is no penalty if a student wishes to withdraw from the program, and all honors courses satisfactorily completed will still contribute to General Education requirements.

Honors Program Course Requirements:

(*courses with asterisk may also satisfy General Education requirements)

HON	100*	Humanities Honors I	3
HON	101*	Humanities Honors II	3
HON	107*	Macrophysical Science or HON 108 Microphysical Science or an approved lab-based science course	3
HON	200	Researching Contemporary Issues	3
HON	301	Field Work in the Natural and Social Sciences	3
HON	xxx	Honors Electives	6
HON	497	Independent Study Senior Project	3
		Total semester hours	24

Honors Program - Nursing Track Course Requirements:

(*courses with asterisk may also satisfy General Education requirements)

HON	100*	Humanities Honors I	3
HON	101*	Humanities Honors II	3
XXX	xxx	Lab Science Requirement	3
HON	200	Researching Contemporary Issues	3

NUR	471	Community Health Nursing	3
HON	xxx	Honors Electives	6
HON	497	Independent Study Senior Project	3
		Total semester hours	24

For additional information about the Honors Program, or to apply, contact:
Honors Program Director
117 Belknap Hall
570-662-4581

HUMAN RESOURCE MANAGEMENT DEGREE PROGRAM

Offered by the Department of Psychology
Professors Feil, Keller, P. (chairperson), Launius, Murray, Seidel
Associate Professors Brown, Loher
Assistant Professor Craig

The Psychology Department offers a B.S. degree in Psychology with a concentration in Human Resource Management. The Human Resource Management concentration is designed to provide the foundation skills needed to fulfill traditional and newly emerging roles in personnel administration and human resource management. This concentration is often selected by students who have interests in both psychology and business management. Students usually intend to seek entry-level human resource management positions in business, service, or health care settings. Some elect to obtain graduate level training in business administration or related areas.

PROGRAM REQUIREMENTS: Human Resource Management Concentration
Psychology, (B.S.): 128 s.h.
(*courses with asterisk may satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
BUS	130	Introduction to Business and Management	3
ECO	102*	Principles of Microeconomics	3
MA	125*	Introduction to Statistics	3
PSY	101*	Introduction to General Psychology	3
PSY	151	Introduction to Applications of Psychology	3
PSY	201	Tests and Measurements	3
PSY	204	Survey Research Methods	
		or	4
PSY	250	Experimental Design I	
PSY	290	Life Span Development	3
Select two of the following three courses:			6
PSY	310	Social Psychology (3)	
PSY	391	Abnormal Psychology (3)	
PSY	430	Theories of Personalities (3)	
PSY	311	Introduction to Small Group Process	3
PSY	313	Psychology of Interviewing	3
PSY	332	Psychology of Stress Management	3
PSY	410	Industrial & Organizational Psychology	3
PSY	462	Behavior Modification	3
PSY	491	Human Resource Management	3

PSY	495	Professional Experience	
		or	3
PSY	497	Independent Study	
SOC	101*	Introduction to Sociology	3
		Total semester hours	58

INTERNATIONAL BUSINESS – (See Business Administration)

INTERNATIONAL STUDIES DEGREE PROGRAM

Offered by the Department of History and Political Science
Professor McQuaid
Assistant Professors Chua, Gaskievicz, Guenther (chairperson)

The Department of History and Political Science offers a B.A. in Political Science, a B.A. in Political Science with an International Studies concentration. We offer minors in history, political science, international studies, and environmental studies.

PROGRAM REQUIREMENTS: Political Science, Interdisciplinary/International Studies Concentration (B.A.): 128 s.h.
(*courses with asterisk may also satisfy General Education requirements)

ANH	101*	Cultural Anthropology	3
ECO	101*	Principles of Macroeconomics	3
ECO	333	International Economics	3
GEG	101*	World Regional Geography	3
HST	111*	World Civilization I	
		or	3
HST	112*	World Civilization II	
PSC	201*	American Politics	3
PSC	210*	World Politics	3
PSC	212*	Comparative Politics	3
Select two of the following four courses:			6
HST	366	Twentieth Century Europe (3)	
HST	377	History of Latin America (3)	
HST	387	History of East Asia (3)	
HST	388	History of Africa (3)	
Select one of the following two courses:			3
ANH	301	World Cultures (3)	
ANH	308	Sub-Sahara Africa (3)	
Select two of the following three courses:			6
PSC	312*	Canada, Mexico, U.S. (3)	
PSC	412	Topics in Comparative Politics (3)	
PSC	415	U.S. Foreign Policy (3)	
XXX	xxx	Advanced Language (one language)	6
		Total semester hours	45

JOURNALISM (See Mass Communication – Journalism)

LIBERAL STUDIES DEGREE PROGRAM

Offered by the Department of Philosophy and Liberal Studies
Professors Bickham (chairperson), Newman, Timko, Young

PROGRAM REQUIREMENTS: Liberal Studies (B.A.): 128 s.h.

The Liberal Studies major allows students to combine course offerings from across the university to construct for themselves a program in a specialty in which the university does not grant a degree. Thus Business, Communication, Art, and Journalism could be combined to construct a concentration in Advertising, or Anthropology, History and Art History for Museum Studies. The program fosters creativity among students in putting together these combinations.

Students in Liberal Studies fulfill the university's General Education program and either take an academic minor or achieve second year proficiency in a foreign language. There are no specific course requirements for Liberal Studies. The structural heart of the program is the 24 hour rule. This rule holds that for a Liberal Studies student no more than 24 semester hours in any individual prefix area can be counted towards the number of hours needed for graduation (128). (Note that BUS, MUS, ART, ED, and ELE are each separate course prefix areas.) The 24 hour rule ensures that Liberal Studies will be used as a combined major, and it is strictly enforced.

Liberal Studies students may design an official academic concentration for themselves. This involves the student's submitting a sequence of courses to be taken to a faculty committee chosen by the Liberal Studies Advisor. If the course sequence is approved by the faculty committee and the Office of the Provost and completed by the student, a notification of the academic concentration will be made on the student's official transcript.

The Philosophy Department houses the Liberal Studies program. Interested students should contact the chairperson, Dr. Stephen Bickham (570-662-4742), for information.

To complete the program, a student satisfies the special General Education component of 34-36 credits. The student also selects an area of concentration from one of the departments offering courses in the Humanities, Foreign Languages, or Social Science areas. The content of this concentration is the same as that of the Bachelor's level minor program, and varies between 15 and 21 semester hours. There is also a small number of free electives in the program, depending on the area of concentration chosen by the student.

MANAGEMENT (See Business Administration)

MASS COMMUNICATION DEGREE PROGRAMS

Offered by the Department of Communication, Theatre and Art
Professor Lapps
Associate Professors Carrish-Bulkley, Longoria, Wright, L. (chairperson) Young
Assistant Professor Crum
Instructors Alnor, Pieper

Mass Communication/Broadcasting

The Broadcasting emphasis prepares students for careers in electronic media writing, production and management, sales, on-air talent, audio recording, cable outlets, law, and advertising. Our program offers a vigorous major elective and free elective curriculum that is adapted to the student's career interest. Students gain experience working in

the university's television and audio studios. Qualified students are encouraged to participate in the department's successful internship program.

After the first semester all majors will have a prepared portfolio reviewed by the student's advisor prior to registration for the subsequent semester. Details on portfolio contents can be found in the student department handbook.

PROGRAM REQUIREMENTS: Mass Communication, Broadcasting Concentration (B.S.): 120 s.h.

COM	201	Intro to Mass Media	3
COM	203	Voice and Articulation	3
COM	220	American Broadcasting History	3
COM	270	Audio Production	
		or	3
COM	310	Electronic Media Management	
COM	301	Television Program Design I	3
COM	304	Television Program Design II	3
COM	336	Business and Professional Communication	3
COM	400	Communication Theory	3
COM	440	Communication Law	3
JN	100	Journalism	3
XXX	xxx	Related Electives	24
		Total semester hours	54

Mass Communication/Journalism: The global information age has accelerated demand for persons equipped with journalism skills. Our program enhances students= abilities to gather, write and manage news and information. The program mixes professional training and surveys the role of the media in society. Related electives allow students to combine journalism skills with career interests such as technical writing, environmental journalism, graphics, sports writing and more. Some potential careers are print journalists, electronic journalists, news editors, information specialists, copywriters, and creative writers. Qualified students are encouraged to participate in the Department's successful internship program.

After the first semester all majors will have a prepared portfolio reviewed by the student's advisor prior to registration for the subsequent semester. Details on portfolio contents can be found in the student department handbook.

PROGRAM REQUIREMENTS: Mass Communication, Journalism Concentration (B.S.): 120 s.h.

COM	201	Introduction to Mass Media	3
COM	336	Business and Professional Communication	3
COM	400	Communication Theory	3
COM	440	Communication Law	3
JN	100	Journalism	3
JN	200	Crisis News Analysis	3
JN	210	Media Design	3
JN	310	Specialized News and Feature Writing	3
JN	320	Magazine Writing and Production	3
JN	330	Contemporary Issues in Journalism	3
XXX	xxx	Related Electives	24
		Total semester hours	54

Mass Communication/Public Relations

The Public Relations concentration is excellent preparation for positions in many different public relations areas: an account executive at an advertising agency, a brand manager for a consumer product, a public relations director for a hospital, an information specialist for a non-profit organization, a sports information director, an owner of an advertising and public relations firm - with over 300 different career choices. Qualified students are encouraged to participate in the Department's successful internship program.

After the first semester all majors will have a prepared portfolio reviewed by the student's advisor prior to registration for the subsequent semester. Details on portfolio contents can be found in the student department handbook.

PROGRAM REQUIREMENTS: Mass Communication, Public Relations Concentration (B.S.): 120 s.h.

COM	201	Introduction to Mass Media	3
COM	203	Voice and Articulation	3
COM	210	Introduction to Public Relations	3
COM	320	Public Relations Writing Techniques	3
COM	336	Business and Professional Communication	3
COM	400	Communication Theory	3
COM	401	Persuasion	3
COM	420	Public Relations Workshop	3
COM	425	Public Communication	3
COM	440	Communication Law	3
JN	100	Journalism	3
XXX	xxx	Related Electives	24
		Total semester hours	57

MATHEMATICS DEGREE PROGRAMS

Offered by the Department of Mathematics and Computer Information Science
Professors Lienhard
Associate Professors D'Ortona (chairperson), Iseri, H., Krantz, Savoye, Schuerman, Werner, J.
Assistant Professors Haner, Phillips, Tan

The Department of Mathematics and Computer Information Science offers two mathematics baccalaureate degree programs: B.S. in Mathematics (with a choice of two concentrations: Pure and Applied), and B.S.E. Mathematics (secondary education). The B.S. program in mathematics is designed to prepare students for a wide range of careers in mathematics outside of education. The B.S.E. in Mathematics program prepares students to become certified teachers of mathematics at the secondary school level. (See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.) There is also a minor in mathematics.

PROGRAM REQUIREMENTS: Mathematics Major (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

Core:

MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233*	Calculus III	4

MA	260*	Discrete Structure	3
MA	280*	Linear Algebra and Matrix Theory	3
MA	314*	Applied Probability and Statistics	3
		Total semester hours for Mathematics Core	21

Concentrations:

Additional requirements for the Pure Mathematics Concentration:

MA	345*	Real Analysis I	3
MA	361*	Modern Algebra I	3
MA	xxx	Mathematics Electives (300/400 level, by advisement)	15
		Total semester hours for Pure Mathematics Concent.	21

Additional requirements for the Applied Mathematics Concentration:

MA	308*	Operations Research	3
MA	311*	Differential Equations I	3
MA	312*	Differential Equations II	3
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4
XXX	xxx	Related Electives (300/400 level, by advisement)@	12
		Total semester hours for Applied Mathematics Concent.	29

@ Between 0 and 6 semester hours at the 300-400 level from exactly one of the prefixes PHY, CHM, BI, CIS, or ECO may be used for Mathematics or related electives. The remaining semester hours (between 6 and 12) must be from the prefix MA at the 300-400 level.

PROGRAM REQUIREMENTS: Mathematics Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3
ED	310	Content Area Reading and Writing	3
ED	314	Teaching Secondary Mathematics	3
ED	320	Observation and Participation – Secondary	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	2
HST	201*	American History through Civil War	
		or	3
HST	202*	American History - Reconstruction to Present	
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233*	Calculus III	4
MA	260*	Discrete Structures	3
MA	280*	Linear Algebra and Matrix Theory	3
MA	304	History and Philosophy of Mathematics	3
MA	314*	Applied Probability and Statistics	3
MA	329*	Modern Geometry I	3
MA	361*	Modern Algebra I	3
MA	300/400*	Electives	12
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4

PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	
		or	3
PSY	321*	Adolescent Psychology	
SPE	275	Inclusion of Diverse Learners	3
		Total semester hours	94

MEDICAL INFORMATION CODING DEGREE PROGRAM

Offered by the Robert Packer School of Health Sciences
Professor Sheehe (chairperson)
Associate Professors Biblehimer, Garrett, McGuire, Seigart, Wright, K.
Assistant Professors Crawshaw, DePumpo, Materese, McEwan
Instructors Treat, Vosburgh

The A.A.S. degree in Medical Information Coding prepares individuals to be Medical Coders. Medical coders assign codes to patient diagnoses and patient services for reimbursement purposes. The Mansfield University Medical Information Coding degree offers individuals a strong background in medical language, and various coding methodologies such as ICD, CPT, HCPCS and E and M coding. Individuals who are interested in becoming medical information coders should have the ability to pay attention to detail and work independently. Most medical information coders work in hospitals, physicians' offices, clinics and home health agencies.

PROGRAM REQUIREMENTS: Medical Information Coding (A.A.S.): 66 s.h.

ENG	112	Composition I	3
BSC	121	Human Anatomy and Physiology I	4
XXX	xxx	Fine Art	3
COM	101	Oral Communication	3
CIS	103	Introduction to Computers	3
UNV	100	Freshman Experience	1
BSC	122	Human Anatomy and Physiology II	4
CD	100	Fundamentals of Medical Terminology	3
CD	120	Health Information Management for Coders	3
CD	105	Basic ICD – 9 cm Coding	5
CD	110	Basic CPT/HCPCS/E&M Coding	5
CD	215	Medical Insurance, Reimbursement Methods	
		And Medical Office Procedures	3
CD	205	Advanced ICD – 9 cm Coding	5
CD	210	Advanced CPT/HCPCS/E&M Coding	5
CD	220	Pharmacology and Pathophysiology for Medical Coding	3
XXX	xxx	General Education	12
XXX	xxx	Wellness	1
		Total semester hours	66

MEDICAL TECHNOLOGY DEGREE PROGRAM

Offered by the Department of Biology

Medical Technology

The medical technology program includes three years of academic study on campus and one year (50 weeks) of clinical study at an approved hospital school of medical

technology. This program is designed to prepare students for a professional career in clinical laboratory sciences and biotechnology. Medical technologists perform complex laboratory analysis that plays a crucial role in the diagnosis and treatment of disease. Courses at Mansfield range from general education, chemistry, biology, and physics to mathematics. Clinical courses include urinalysis, hematology, clinical chemistry, blood banking, immunology, parasitology, medical bacteriology, and mycology. The student must apply to a hospital school and be accepted by the hospital for the year of clinical study. Mansfield University has an affiliation with Robert Packer Hospital School of Medical Technology in Sayre, Pennsylvania. Brian Spezialetti, M.S.Ed, MT (ASCP), program director and Joseph King, M.D., medical advisor, administer the medical technology program at Robert Packer Hospital. Program graduates meet the requirements for certification by the American Society of Clinical Pathologists. Graduates of this program have professional employment opportunities in the following fields: hospital and private laboratories, pharmaceutical laboratories, research laboratories, biotechnology laboratories, veterinary clinics and forensic laboratories. Career growth is possible within the field and numerous graduate and professional school opportunities exist for students interested in furthering their education. If you choose not to do a clinical year or you are not accepted to a hospital school, you may complete a fourth year at Mansfield University and receive a B.S. in Biology.

PROGRAM REQUIREMENTS: Medical Technology (B.S.): s.h.

(*courses with asterisk may also satisfy General Education requirements)

BI	100	Orientation to Biology	1
BI	110*	Zoology	4
BI	310	Physiology	4
BI	370	Cell Biology	4
BI	371	Microbiology	4
BI	374	Immunology	3
CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	311	Quantitative Analysis	4
MA	231*	Calculus I	4
PHY	191*	Physics I	4
XXX	300/400	Clinical Education/ off campus	32
		Total semester hours	80

MEDICAL TRANSCRIPTION DEGREE PROGRAM

Offered by the Robert Packer School of Health Sciences
Professor Sheehe (chairperson)
Associate Professors Biblehimer, Garrett, McGuire, Seigart, Wright, K.
Assistant Professors Crawshaw, DePumpo, Materese, McEwan
Instructors Treat, Vosburgh

The A.A.S. Degree in Medical Transcription prepares individuals to be medical transcriptionists. Medical transcriptionists are specialists in health care documentation who interpret and transcribe dictation by physicians and other health care personnel. The Mansfield University Medical Transcription program offers individuals a strong background in medical language, disease processes, medicolegal and ethical concepts as well as medical transcription. Persons interested in this degree need to have excellent

English language skills and have a strong interest in medical language. Medical transcriptionists work in hospitals, physicians' offices, clinics, insurance companies and home health agencies. Many Medical transcriptionists work in their homes as independent contractors.

PROGRAM REQUIREMENTS: Medical Transcription (A.A.S.): 66 s.h.

ENG	112	Composition I	3
BSC	121	Human Anatomy and Physiology I	4
XXX	xxx	Fine Art	3
COM	101	Oral Communication	3
CIS	103	Introduction to Computers	3
UNV	100	Freshmen Experience	1
ENG	230	Writing for Business (W)	3
BSC	122	Human Anatomy and Physiology II	4
CD	100	Fundamentals of Medical Terminology	3
MT	100	Medical Transcription I	4
MT	101	Disease Processes I	2
MT	102	Medical Terminology for Transcription	2
MT	103	Medical-Legal-Ethical Issues	3
MT	104	Technology and Healthcare Records	3
MT	200	Medical Transcription II	4
MT	201	Disease Processes II	2
XXX	xxx	General Education	9
MT	202	Medical Transcription Practicum	6
CD	220	Pharmacology and Medical Technology	3
XXX	xxx	Wellness	1
		Total semester hours	66

MUSIC DEGREE PROGRAMS

Professors Boston, Dettwiler, Galloway, Murphy (chairperson), Owens, Sarch
Associate Professors Borsheim, Brennan, Kim, Teal
Assistant Professors Crowder, Eidenier, Gregorich, McBrearty, McEuen, Monkelien, Schmid
Instructors Laib, Slotkin, Smolen

The Music Department offers five degree programs leading to the baccalaureate degree with a major in music as well as a Music minor for students in other majors with appropriate interest and aptitude to obtain a minor in music.

The Master of Music in Music Education is designed for teachers of music. Students without public school certification may wish to meet these requirements while simultaneously pursuing the M.M. degree.

During the Spring after the student completes 30 semester hours as a music major a Sophmore Review will be administered to monitor progress as a music major. The review will consist of primary instrument, singing, piano, conducting, grade point review, and discussion of written career goals. The review must be passed to continue into junior level music courses.

Music

The Bachelor of Arts in Music is designed for students with a strong interest and ability in music but who do not have immediate vocational goals.

PROGRAM REQUIREMENTS: Music (B.A.): 128 s.h.

MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	220	Western Art Music until 1750	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
Applied Music (Major 16, Secondary 2, Ensemble 8)			26
		Total semester hours	47

Music-Business

PROGRAM REQUIREMENTS: Music-Elective Studies in Business (B.M.): 133 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
BUS	130	Introduction to Business and Management	3
BUS	330	Marketing	3
BUS	370	Salesmanship	3
BUS	410	Business Law I	3
CIS	103	Introduction to Microcomputers	3
COM	210	Introduction to Public Relations	3
ECO	102*	Principles of Microeconomics	3
MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	220	Western Art Music until 1750	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	250	Basic Conducting	1
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	314	Computer Music Notation	1
MU	317	Keyboard Skills I	1
MU	481	Survey of the Business of Music	3
MU	489	Internship - Music Merchandising	12
MU	xxx	Music Electives	3
MU	xxx	Applied Music (Major 14, Secondary 6, Ensemble 7)	27
XXX	xxx	Choose One of the Following: Arts Management, Publishing, Sales, Personalized	3
		Total semester hours	96

Music Education

The Bachelor of Music in Music Education program is accredited by the National Association of Schools of Music, the Pennsylvania Department of Education, the National Council of Accreditation of Teacher Education, and the Middle States Association of Colleges and Secondary Schools. Completion of the degree requirements leads to certification by the Commonwealth of Pennsylvania for the recipient to teach music in kindergarten through high school, both vocal and instrumental.

See The Teacher Education Certification Section, Page xx, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Music Education (B.M.): 130 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
MU	141	Introduction to Music Education	1
MU	211*	Basic Music I	3
MU	212*	Basic Music II	3
MU	220	Western Music until 1750	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	250	Basic Conducting	1
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	315	Orchestration	3
MU	317	Keyboard Skills I	1
MU	341	Music in the Elementary School	2
MU	342	Music in the Secondary School	2
MU	343	Instrumental Music in the Public School	2
		or	
MU	344	Vocal-Choral Music in the Public Schools	
MU	350	Choral Conducting	2
		or	
MU	351	Instrumental Conducting	
MU	400	Student Teaching	12
MU	xxx	Applied Music (Voice Students require MU 352)	
		(Major 14, Secondary 11, Ensemble 7)	32
PSY	101*	Introduction to General Psychology	3
SPE	275	Inclusion of Diverse Learners	3
		Total semester hours	91

Music Performance

The Bachelor of Music in Music Performance is available in piano, organ, guitar, voice, percussion, and any standard string, brass, and woodwind instrument.

PROGRAM REQUIREMENTS: Music Performance, (B.M.):128 s.h.

MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	220	Western Art Music until 1750	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	250	Basic Conducting	1
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	314	Computer Music Notation	1
MU	323, 420, 429	Literature	3
MU	350 or 351	Choral or Instrumental Conducting	2
MU	471-477	Pedagogy	2
MU	xxx	Music Electives	5
		(Voice concentration requires MU352 and MU 353)	
MU	xxx	Applied Music (Major 32, Secondary 4, Ensemble 12)	48
		Total semester hours	83

Music Therapy

The Bachelor of Music in Music Therapy offers challenge, opportunity, and special rewards to those interested in working with people. Children and adults who require therapy because of behavioral, psychological, and/or physical disorders are helped through the use of music. The skills of the music therapist are needed in a variety of places, including mental hospitals, geriatric centers, day care facilities, community health centers, and substance abuse agencies. Graduates are eligible to apply for registration as a music therapist (R.M.T.) through the National Association for Music Therapy, of which the department is a member.

The Bachelor of Music with Elective Studies in Business is a program designed for students who want to prepare for careers in the music industry including music retailing, publishing, entertainment, and arts promotion. An intern program provides the student with field experiences prior to graduation.

PROGRAM REQUIREMENTS: Music Therapy (B.M.): 130 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy and Physiology I	4
BSC	122*	Human Anatomy and Physiology II	4
MTH	171	Therapy Orientation	3
MTH	210	Clinical Integration I	1
MTH	211	Clinical Integration II	1
MTH	211L	Clinical Orientation Lab	1
MTH	352	Movement in Music Therapy	2
MTH	372	Psycho-Social Foundations of Music	3
MTH	410	Advanced Clinical Integration I	1
MTH	410	Advanced Clinical Integration I	1
MTH	411	Advanced Clinical Integration II	1
MTH	411	Advanced Clinical Integration II	1
MTH	471	Influence of Music on Behavior	3
MTH	472	Music inTherapy	3
MTH	475	Internship	2
MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	220	Western Art Music until 1750	3
MU	221	Classic and Romantic Music	3
MU	222	Post Romantic and 20th Century Music	3
MU	250	Basic Conducting	1
MU	311	Basic Music III	3
MU	312	Basic Music IV	3
MU	314	Computer Music Notation	1
MU	315	Orchestration	3
MU	317	Keyboard Skills I	1
PSY	101*	Introduction to General Psychology	3
MU	xxx	Applied Music (Major 16, Secondary 7, & Ensemble 8)	31
PSY	391	Abnormal Psychology	3
SOC/ANH*	xxx	Elective	3
SPE	101	Introduction to Special Education	3
		Total semester hours	101

NURSING DEGREE PROGRAMS

Offered by the Robert Packer Department of Health Sciences
Professor Sheehe (chairperson)
Associate Professors Biblehimer, Garrett, McGuire, Seigart, Wright, K.
Assistant Professors Crawshaw, DePumpo, Materese, McEwan
Instructors Treat, Vosburgh

Nursing

Mansfield University's Robert Packer Department of Health Sciences offers a nursing program, accredited by The National League for Nursing Accrediting Commission, 61 Broadway, NYC, NY 10006 (800-669-9656), blends the resources of a public university and a regional medical center. This combination leads to a program that is both academically and clinically strong. The curriculum provides a solid background in nursing as well as the liberal arts and sciences.

Students spend their first two years on the Mansfield campus taking courses in general education and nursing. The second two years are at the Sayre site where they engage in a wide range of clinical experiences at the Robert Packer Hospital. Students also have the opportunity to learn in community settings such as nursing homes, elementary and secondary schools, nursery schools, and outpatient clinics, in addition to traditional public health agencies.

The goals of the program are to provide students with the essentials skills necessary to develop intellectual curiosity, critical thinking, communication skills, therapeutic nursing skills which provide the basis for the development of a successful and professional nursing practitioner. This educational program prepares individuals for career opportunities in acute, chronic and community settings.

Policies and Procedures specific to the nursing major:

The Mansfield University nursing program endeavors to comply with the Americans With Disabilities Act and with University Policies regarding students with disabilities. Every effort will be made to provide reasonable accommodation for qualified students with disabilities who are able to perform the essential functions of our academic program in nursing. Students who are accepted into the program, and then discovered to be unable to perform these essential functions (with or without accommodation) may not be able to complete the program. Graduates who complete the program but are unable to perform certain competencies may experience significant roadblocks to, and in, the employment setting.

Admissions: Criteria for admission shall be the same as that for general admission to the University with these exceptions: Applicants must submit satisfactory reports of medical and dental examinations prior to the opening of the school term, and have completed the following subjects in high school:

English, four (4) credits

History or Social Studies, three (3) credits

Lab sciences, two (2) credits (Biology and Chemistry required) (LPNs and RNs with integrated curricula may meet this requirement.)

Math, two (2) credits, one of which must be algebra

Minimum Academic Requirements: Students are subject to all university academic requirements. The following academic requirements apply only to continuance in the nursing program at the University.

A. Required courses for the B.S. degree in Nursing are not included in the University Pass/Fail policy.
B. A grade of C or better must be achieved in all nursing (NUR) courses.

C. An unsatisfactory grade in the clinical component of a nursing course will result in an F grade for the course.

D. Requirements for the Bachelor of Science degree in Nursing must be completed within seven years.

E. Program Progression:

1. A 2.3 cumulative GPA (Grade Point Average) or better is required to enroll in sophomore level nursing courses (NUR 200-299).
2. A 2.5 cumulative GPA or better is required to enroll in junior and senior level nursing courses (NUR 300-499).
3. A grade of C minus (C-) or better in CHM 110, BSC 121, BSC 122, BSC 271 (or equivalent courses) is required to progress in the nursing program.

F. Program Academic Dismissal:

1. Students who fail to achieve a C grade or better after taking a nursing (NUR) course for the second time will be automatically dismissed from the nursing program.
2. Only one nursing (NUR) course may be repeated for the entire nursing program. If a student receives a C minus (C-) or below in a second nursing course, the student will be dismissed from the program.

Students must be enrolled as a nursing major to take nursing courses other than NUR 170.

Licensure Eligibility in Pennsylvania: Applicants to nursing education programs in Pennsylvania should be aware of certain restrictions on obtaining a nursing license. Pennsylvania Public Law No. 317, No. 69, known as the Professional Nursing Law, places the following limitation on licensure eligibility.

The Board shall not issue a license or certificate to an applicant who has been convicted of a felonious act prohibited by the act of April 14, 1972 (P.L. 233, No. 64), known as The Controlled Substance Drug, Device and Cosmetic Act, or convicted of a felony relating to a controlled substance in a court of law of the United States or any other state, territory or country unless:

At least ten (10) years have elapsed from the date of conviction;

The applicant satisfactorily demonstrates to the Board significant progress in personal rehabilitation since the conviction such that licensure of the applicant should not be expected to create a substantial risk of harm to the health and safety of patients or the public or a substantial risk of further criminal violations;

The applicant otherwise satisfies the qualifications contained in or authorized by this act.

As used in this subsection the term convicted shall include a judgement, an admission of guilt, or a plea of nolo contendere. (Sect. 6, P.S.`216).

One hour of class equals one semester hour of credit. Three hours of clinical equals one semester hour of credit.

Registered nurses who enroll to complete a baccalaureate degree in Nursing are granted advanced standing based on university policies. RN students must complete 31 nursing credits at Mansfield University and meet all other university requirements to be eligible for graduation.

PROGRAM REQUIREMENTS: Nursing (B.S.N.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy and Physiology I	4
BSC	122*	Human Anatomy and Physiology II	4
BSC	271*	Microbiology for the Health Sciences	
		or	4

BI	371	Microbiology	
CHM	110*	Survey of Chemistry-Introductory, Organic, and Biological	4
DIT	211	Introduction to Nutrition	3
MA	125*	Introduction to Statistics	3
NUR	170	Introduction to the Health Sciences	1
NUR	270	Introduction to Professional Nursing I	3
NUR	271	Introduction to Professional Nursing II	4
NUR	361	Introduction to Nursing Research	2
NUR	370	Nursing of the Adult Client	8
NUR	371	Nursing Care of Childbearing and Childrearing Families	8
NUR	391	Pathophysiologic and Pharmacologic Bases of Nursing I	3
NUR	392	Pathophysiologic and Pharmacologic Bases of Nursing II	3
NUR	460	Current Issues in Professional Nursing	3
NUR	471	Community Health Nursing	6
NUR	472	Mental Health Nursing	6
NUR	480	Leadership and Management in Nursing	3
NUR	490	Care of the Client with Multisystem Stressors	8
NUR	xxx	Nursing Elective	3
PHL	380*	Health Care Ethics	3
PSY	101*	Introduction to Psychology	3
SOC	101*	Introduction to Sociology	3
		Total semester hours	92

PROGRAM REQUIREMENTS: Nursing (R.N. to B.S.N.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy and Physiology I	4
BSC	122*	Human Anatomy and Physiology II	4
BSC	271*	Microbiology for the Health Sciences	
		or	4
BI	371	Microbiology	
CHM	110*	Survey of Chemistry – Introductory, Organic and Biological	4
DIT	211	Introduction to Nutrition	3
MA	125*	Introduction to Statistics	3
PHL	380*	Health Care Ethics	3
PSY	101*	Introduction to Psychology	3
SOC	101*	Introduction to Sociology	3

Nursing Transfer Credits: (38)

NUR	170	Introduction to Health Sciences	1
NUR	270	Introduction to Nursing I	3
NUR	271	Introduction to Nursing II	4
NUR	370	Nursing of the Adult Client	8
NUR	371	Care of Childbearing / Childrearing families	8
NUR	472	Mental Health Nursing	6
NUR	490	Care of the Client with Multisystem Stressors	8

Nursing Major Credits: (31)

NUR	260	Concepts of Professional Nursing	3
NUR	261	Health Assessment for RN's	3
NUR	361	Introduction to Nursing Research	2
NUR	391	Pathophysiologic and Pharmacologic Bases of Nursing I	3

NUR	392	Pathophysiologic and Pharmacologic Bases of Nursing II	3
NUR	460	Current Issues in Professional Nursing	3
NUR	471	Community Health Nursing	6
NUR	480	Leadership and Management in Nursing	3
NUR	xxx	Nursing Elective (s)	5
		Total semester hours	100

Note: RN to BSN students must take a minimum of 31 s.h. with NUR prefix from Mansfield University.

NUTRITION AND DIETETICS DEGREE PROGRAM

Offered by the Robert Packer Department of Health Sciences
Professor Sheehe (chairperson)
Associate Professors Biblehimer, Garrett, McGuire, Seigart, Wright, K.
Assistant Professors Crawshaw, DePumpo, Materese, McEwan
Instructors Treat, Vosburgh

Nutrition and Dietetics

The Mansfield University Nutrition and Dietetics program is currently granted approval status by the Commission on Accreditation/Approval for Dietetics Education of the American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995 (312-899-4876). This program includes specialized courses in life cycle nutrition, community nutrition, advanced nutrition, medical nutrition therapy, nutrition education and counseling, food science, food service, chemistry and biology. Students have the opportunity to learn about nutrition and dietetics in a rural environment.

Graduates of this program have two options: (1) to obtain an American Dietetic Association accredited internship in order to become a Registered Dietitian or (2) to obtain an entry level job in the fields of nutrition or food service management.

Career opportunities in this growing field include jobs in schools, industry, food service operations, hospitals, long term care facilities, private practice, and a variety of public and private organizations.

Nutrition and dietetics students are subject to all University academic requirements. The following academic requirements apply only to those continuing in the Nutrition and Dietetics Program.

1. Courses required for the B.S. in Nutrition and Dietetics may not be taken Pass/Fail.
2. A grade of "C" or above is required in all nutrition and dietetics (DIT) courses or the course must be repeated.
3. Nutrition and Dietetics courses may be repeated once.
4. Requirements for the BS in Nutrition and Dietetics must be completed in 7 years or the student may need to repeat certain courses.
5. Students must maintain a minimum GPA of 2.5.
6. All academic standards stated above must be met to receive a Verification Statement. This statement is required for an American Dietetic Association internship, licensure and in some states for certification.

DEGREE REQUIREMENTS: Nutrition and Dietetics (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy and Physiology I	4
BSC	122*	Human Anatomy and Physiology II	4
BSC	271*	Microbiology for Health Sciences	4

BUS	130	Introduction to Business and Management	3
CHM	101*	Introduction to Chemistry	4
CHM	102*	Organic and Biochemistry	4
CHM	201	Introduction to Biochemistry	4
DIT	211	Introduction to Nutrition	3
DIT	305	Principles of Food Science	3
DIT	306	Meal Management	3
DIT	314	Nutrition Throughout the Life Cycle	3
DIT	315	Food Service Organization and Management	3
DIT	316	Community Nutrition	3
DIT	325	Nutrition Education and Education	3
DIT	401	Medical Nutrition Therapy I	3
DIT	402	Medical Nutrition Therapy II	3
DIT	420	Nutrition Research Seminar	3
DIT	411	Quantity Food Production	4
DIT	417	Advanced Nutrition	3
DIT	xxx	Choice	3
MA	125*	Introductory Statistics I	3
PSY	101*	Introduction to General Psychology	3
		Total semester hours	59

PHILOSOPHY DEGREE PROGRAM

Offered by the Department of Philosophy and Liberal Studies
Professors Bickham (chairperson), Newman, Timko, Young

Philosophy courses provide students the opportunity to investigate important questions of life in an adult manner. Philosophy is concerned with such issues as the meaning of life, whether we are really free, the nature of the self, how we can determine what is morally right and wrong, proper reasoning (logic), whether there is a God, the nature of religion, science, and art. The department offers the B.A. degree in philosophy, as well as a philosophy minor. In addition, the B.A. degree in Liberal Studies, the minor program in Canadian Studies, and the minor in Pre-Law are all administered by the Philosophy and Liberal Studies Department.

A Philosophy major provides an excellent grounding in the fundamental ideas and concepts of our culture. It thus explains a great deal of why we are the way we are and do the things we do. Students are introduced to major philosophers such as Plato, Aristotle, Descartes, and Hume. The major is appropriate for those wishing to pursue advanced degrees in Philosophy and is also excellent training for any profession requiring skill in analytic reasoning, writing, and argumentation. There is sufficient flexibility in the Philosophy major to allow students to combine Philosophy as a double major with any other university program. The Philosophy Minor requires eighteen semester hours in philosophy are required, with at least nine of these being at the upper division level.

Canadian Studies

The formal study of Canada is a critical element in the education of the next generation of leaders, providing a significant, accessible avenue for understanding global interdependence and multicultural environments. Moreover, with Canada and the United States as each other=s largest trading partner, learning about Canada as a foreign market makes increasingly good economic sense, especially as the North America Free Trade Agreement (NAFTA) becomes fully implemented and international job mobility increases.

The Canadian Studies minor provides the student with an interdisciplinary approach to understanding the history, literature, economics, politics, business, fine arts, educational systems, and the physical and cultural environments of our northern neighbor. Building on the theoretical and practical content of the core course, the student selects courses from across the curriculum wherever Canadian content or perspectives are designated. The minor (18 s.h.) consists of the core course, a seminar or internship, two directed electives, and two free electives. The core course, Introduction to Canada, counts as a Group I General Education Distribution requirement, whether or not the student completes the minor. One of the directed electives must be from arts, humanities, or languages; the other from the social sciences or professional studies. The two free electives may be chosen in consultation with the Director of Canadian Studies from among designated courses. The significant culminating requirement of the minor is either an in-depth seminar on a Canadian topic or an internship with a business or agency with Canadian interests.

Pre-Law

Mansfield University has an active and successful effort in the preparation of students for the study of Law. This program centers around the Pre-Law Association and the Pre-Law Academic Minor. Pre-Law is administered by the Philosophy and Liberal Studies Department. Dr. Thomas Young is the Pre-Law advisor. His office is in South Hall 315; his email address is tyoung@mnsfld.edu. The Pre-Law Association is an active, student-funded organization which supplies students with various types of support in preparation for law school. This includes trips to law school fairs, advice concerning LSAT preparation programs, advice on studying for the LSAT, visits to Mansfield University from law school recruiters, advice on applying to law schools, discussions by visiting alumni attorneys or law students, etc. In order to ensure that students expressing the intention of enrolling in law school will receive the support they need, these students are brought in to Mansfield University as Philosophy majors. Such students are not at all required to remain Philosophy majors, but they are expected to discuss an appropriate major for themselves with the Pre-Law advisor, depending on the area of law they anticipate practicing.

The Pre-Law minor consists of 18 semester hours. Introduction to Logic (PHL 230) is required. Eighteen hours are taken as electives from an approved list of courses in Communication, Philosophy, Political Science, and Psychology.

Mansfield University has special arrangements with several law schools in our general geographical area. These agreements facilitate the acceptance of qualified Mansfield University students into their programs. Request specific information from Dr. Young. (See first paragraph above.)

PROGRAM REQUIREMENTS: Philosophy Major, (B.A.) 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

PHL	201*	Introduction to Philosophy	
		or	3
PHL	202*	Contemporary Moral Problems	
PHL	230*	Introduction to Logic	3
PHL	xxx	Philosophy Electives	9
PHL	420	Classical Greek Philosophy	3
PHL	422	Topics in Modern Philosophy	3
PHL	423	20th Century Philosophy	3
PHL	300/400	Philosophy Electives	9
		Total semester hours	33

PHYSICS DEGREE PROGRAMS

Offered by the Department of Chemistry and Physics
Professors Ramasamy (chairperson), Sidler
Associate Professors Ambrosio, Chester, Davis, Ganong, Vayansky
Assistant Professor Kozacko

The Department of Chemistry and Physics offers two programs which lead to the baccalaureate degree with a major in physics. Minors in Chemistry, Physics, and Forensic Science are available as further options.

Physics

The B.S. degree in physics offers intensive training in classical and modern physics both in the classroom and in the laboratory. Students are taught the fundamental laws of nature and how to apply these principles to practical problems and situations. Some career opportunities for students who complete the B.S. degree program in Physics include: research assistants in government and industrial laboratories; technicians in the communication, electronics, and energy industries; and editors/writers of technical manuscripts. This program is excellent preparation for graduate study in physics, engineering, law, and economics.

Physics/Pre-Engineering

The B.S. degree in physics with pre-engineering concentration is designed for students who want a broadly based physics and engineering education. This program is a cooperative endeavor between Mansfield University and other institutions. Check with your advisor to see the list of other institutions. Students spend three years at Mansfield completing the bulk of their required course work for the physics degree and then two years at an engineering school completing their course work for the engineering degree. At the culmination of the experience, the student will have earned a B.S. in physics from Mansfield and an engineering degree from the affiliated school. Some career opportunities for students who choose to participate in this program include mechanical, electrical, civil, and chemical engineers; consultants to engineering firms; and research assistants in government and industrial laboratories.

PROGRAM REQUIREMENTS: Physics (B.S.) with Physics and Pre-engineering Concentrations: 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

Core:

CHM	111*	General Chemistry I	4
CHM	112*	General Chemistry II	4
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233*	Calculus III	4
MA	280*	Linear Algebra and Matrix Theory	3
MA	311*	Differential Equations I	3
MA	312*	Differential Equations II	3
PHY	180	Quantitative Methods of the Physical Sciences	3
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4
PHY	311	Modern Physics I	3
PHY	312	Modern Physics II	3

PHY	313	Physical Mechanics I	3
PHY	315	Analog Electronics	4
PHY	316	Digital Electronics	4
		Total semester hours for Core	57

Concentrations

Pre-Engineering Concentration: 6 s.h.

PHY	xxx	Physics Electives (300/400 level)	6
		Total semester hours for Concentration	6

Physics Concentration: 15 s.h.

PHY	xxx	Physics Electives (300/400 level)	15
		Total semester hours for Concentration	15

Physics Education

The B.S.E. degree in physics is designed for those students who want to teach physics in secondary schools. This program provides the necessary course work for certification as a physics teacher. Advising is handled by both education and physics faculty members. Many students enrolled in this program also choose to seek certification in mathematics. (See The Teacher Education Certification Section, Page xx, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.)

The department offers minors in chemistry, physics, or forensic science to all interested persons who fulfill the basic requirements of the programs. The minor, while not a degree program, is intended to permit students to develop their interest in chemistry, physics, or forensics and thereby broaden their background as they acquire marketable skills.

PROGRAM REQUIREMENTS: Physics Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3
ED	310	Content Area Reading and Writing	3
ED	313	Teaching Science in Secondary Schools	3
ED	320	Observation and Participation – Secondary	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	2
HST	201*	American History Through the Civil War	
		or	3
HST	202*	American History - Reconstruction to the Present	
MA	231*	Calculus I	4
MA	232*	Calculus II	4
MA	233*	Calculus III	4
PHY	180	Quantitative Methods of the Physical Sciences	3
PHY	210*	General Physics I	4
PHY	211*	General Physics II	4
PHY	311	Modern Physics I	3
PHY	312	Modern Physics II	3
PHY	315	Analog Electronics	4
PHY	xxx	Physics Elective	3-4

PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	
		or	3
PSY	321*	Adolescent Psychology	
SPE	275	Inclusion of Diverse Learners	3
		Total semester hours	80-81

POLITICAL SCIENCE DEGREE PROGRAMS

Offered by the Department of History and Political Science
Professor McQuaid (chairperson)
Assistant Professors Chua, Gaskievicz, Guenther

The Department of History and Political Science offers three political science degrees: a B.A. in Political Science, a B.A. in Political Science International Studies concentration, and a B.S.E. in Social Studies/Political Science. (See The Teacher Education Certification Section, Page xx, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.) We offer minors in history, political science, international studies, and environmental studies.

Political Science

The Political Science program provides a broad, balanced introduction to the substantive aspects of government and politics and to the ways these have been studied and explained by the discipline of Political Science. The program develops the knowledge and skills required for further study in graduate school or law school and for the pursuit of careers in fields such as business, law, public administration, politics, teaching, journalism, and research. The program nurtures attitudes and values conducive to life-long learning about government and politics and to active, effective citizenship.

PROGRAM REQUIREMENTS: Political Science (B.A.): 120 s.h..
(*courses with asterisk may also satisfy General Education requirements)

PSC	100*	Introduction to Politics	3
PSC	201*	American Politics	3
PSC	210*	World Politics	3
PSC	235*	Research Methods	3
Political Science Electives (min. 18 at 300/400 level)			24
		Total semester hours	36

PRE-ENGINEERING (See Physics)

PSYCHOLOGY DEGREE PROGRAM

Offered by the Department of Psychology
Professors Feil, Keller, P. (chairperson), Launius, Murray, Seidel
Associate Professors Brown, Loher
Assistant Professor Craig

The Psychology Department offers a B.S. degree in Psychology with concentrations in Psychology and Human Resource Management. The Psychology concentration is chosen by students who (1) plan advanced study in the field, (2) intend to seek employment in a related area upon graduation, or (3) seek a liberal arts background within the Psychology major. Many graduates enter master's degree programs in counseling or related fields.

Minors are available in Psychology and Psychology of Human Development. The Psychology minor provides a general survey of the field. The Psychology of Human Development minor provides more focused study in areas of child, adolescent, or adult development.

Careful advisement of students is a priority of the Psychology Department. All students must complete a thorough orientation to the major, and their subsequent studies are guided by a goal-oriented process. All students maintain a portfolio to assess their learning and guide their academic and professional development. The portfolio is submitted for final review in conjunction with the department's senior seminar course.

Students are involved in various forms of research under faculty direction. Students present their research at the annual Psychology Research Symposium.

Many students report the internship to be an important part of their educational experience. For some, the internship leads directly to employment. The Psychology Department maintains relationships with a broad range of organizations that offer internships in counseling, other human services, health care, or business. To qualify for an internship, students must maintain a B average in the major. Advisors work closely with students to plan the internship and ensure that the experience is successful.

To meet requirements for graduation as a Psychology major, students must (1) satisfy the University's general education and degree requirements, (2) complete the Psychology course requirements, (3) submit an acceptable portfolio, (4) pass a comprehensive exit examination, and (5) complete either an independent research project or an internship.

PROGRAM REQUIREMENTS: Psychology, (B.S.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

MA	125*	Introduction to Statistics	3
PSY	101*	Introduction to General Psychology	3
PSY	151	Introduction to Applications of Psychology	3
PSY	201	Tests and Measurements	3
PSY	204	Survey Research Methods	
		or	4
PSY	250	Experimental Design I	
PSY	290*	Life Span Development	3
Select 2 from PSY310, PSY391or PSY430			3
PSY	310	Social Psychology (3)	
PSY	391	Abnormal Psychology (3)	
PSY	430	Theories of Personalities (3)	
PSY	490	Senior Seminar	3
PSY	495	Pre-Professional Experience (6 s.h. min.)	
		or	
PSY	496	Research Apprenticeship (6 s.h. min.)	3-6
		or	
PSY	497	Independent Study (3 s.h. min.)	
Psych/Lab Electives			4
PSY	350	Experimental I: Learning (3)	
PSY	350L	Experimental I: Lab (1)	
PSY	355	Health Psychology (4)	
PSY	460	Physiological Psychology (3)	
PSY	460L	Physiological Psychology Lab (1)	
Select Group A or B			
Group A			6

PSY	300	Helping Skills (3)	
PSY	301	Theories of Counseling (3)	
	or		
Group B (select 2 with labs)			8
PSY	350	Experimental I: Learning (3)	
PSY	350L	Experimental I: Lab (1)	
PSY	355	Health Psychology (4)	
PSY	460	Physiological Psychology (3)	
PSY	460L	Physiological Psychology Lab (1)	
		Total semester hours	44-49

PUBLIC RELATIONS (see Mass Communication)

RADIOLOGY TECHNOLOGY DEGREE PROGRAM

Offered by the Robert Packer Department of Health Sciences
Professor Sheehe (chairperson)
Associate Professors Biblehimer, Garrett, McGuire, Seigart, Wright, K.
Assistant Professors Crawshaw, DePumpo, Materese, McEwan
Instructors Treat, Vosburgh

Radiographers (radiology practitioners) are valued members of the healthcare team involved in imaging body structures and organs, utilizing a variety of procedures and sophisticated equipment. Advanced opportunities in computed tomography (CT), cardiovascular interventional technology, magnetic resonance imaging (MRI), ultrasound, nuclear medicine, and radiation therapy are available to the radiographer.

Radiologic Technology is a two-year degree program offered through the Mansfield University Health Sciences Department and accredited by the Joint Review Committee on Education in Radiologic Technology. The program coordinates academic study with clinical experience during four semesters as well as two summers. Through a blend of classroom and clinical training, students learn radiographic equipment operation, patient positioning techniques, radiation safety, and patient care. All professional courses are taught in modern up-to-date college and clinical affiliate classrooms and laboratories. Clinical education includes extensive clinical experience in the Radiology Department of Robert Packer Hospital in Sayre, Pennsylvania.

Radiology students begin their first semester studies on the university campus. Other course work and clinical experiences, for the remainder of the program, are conducted at the clinical site in Sayre, Pennsylvania.

Program graduates are eligible to sit for the certification examination of the American Registry of Radiologic Technologists (ARRT). Certified Radiographers may use the letters AR.T. after their names. ARRT certification satisfies most state radiographer licensure laws.

The majority of graduates are employed by hospitals and clinics. However, individuals may choose to work for private companies or in industry. Employment opportunity trends indicate an open job market in all phases of radiologic technology that will continue into the future.

Program graduates have the option to obtain a Baccalaureate Degree from Bloomsburg University. Under the terms of an articulation agreement between Mansfield University and Bloomsburg University, graduates from the Mansfield University Radiologic Technology Program are guaranteed admission, with advanced standing at the junior level, to Bloomsburg University.

Program Mission

The mission of the Mansfield University Radiology Technology Program is to develop highly skilled, competent diagnostic radiographers. These radiographers must possess skills associated with the profession of radiologic technology including technical skills related to positioning patients for radiographic procedures, utilizing radiation protection, practices, formulating exposure techniques, and evaluating radiographic images. They must also demonstrate excellence in patient care and communication, critical thinking skills and a high regard for medical ethics.

Graduates will also demonstrate familiarity with specialized radiologic modalities including Magnetic Resonance Imaging (MRI), Nuclear Medicine, Vascular Interventional Radiography, Ultrasound, CT Scanning and Radiation Therapy.

By providing a high quality academic curriculum with associated laboratories, and a guided systematic approach to clinical experience, the faculty strives to produce graduates who become effective members of today's health care team.

Program Goals

To develop students with skills in the technical aspects of producing and evaluating radiographs.

To develop students with skills in communication, patient care, critical thinking and use of medical ethical concepts.

To provide the health care community with competent, entry-level diagnostic radiographers.

PROGRAM REQUIREMENTS: Radiology Technology (A.A.S.):67 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy & Physiology I	4
BSC	122*	Human Anatomy & Physiology II	4
CIS	103*	Introduction to Microcomputers	3
COM	101	Oral Communication	3
ENG	112	Composition I	3
MA	xxx*	Math choice*125, 128, 165, 170 or 231	3-4
PHL	191	Ethical Issues in Allied Health Care	3
PHY	165	Physics for the Allied Health Sciences	3
PSY	101*	Introduction to General Psychology	3
SOC	101*	Introduction to Sociology	3
XRT	101	X-Ray Technology I	3
XRT	102	X-Ray Technology II	3
XRT	103	X-Ray Technology III	5
XRT	104	X-Ray Technology IV	3
XRT	105	X-Ray Technology V	3
XRT	106	X-Ray Technology VI	4
XRT	203	X-Ray Physics	3
XRT	301	Clinical Practicum I	2
XRT	302	Clinical Practicum II	2
XRT	303	Clinical Practicum III	2
XRT	304	Clinical Practicum IV	3
XRT	305	Clinical Practicum V	2
		Total semester hours	67-68

REGIONAL PLANNING (See Geography and Geology)

RESPIRATORY THERAPY DEGREE PROGRAM

Offered by the Robert Packer Department of Health Sciences
Professor Sheehe (chairperson)
Associate Professors Biblehimer, Garrett, McGuire, Seigart, Wright, K.
Assistant Professors Crawshaw, DePumpo, Materese, McEwan
Instructors Treat, Vosburgh

This is a two-year, limited enrollment program with a reputation for exceptionally strong clinical training. It is jointly sponsored by Mansfield University and the Guthrie Healthcare System in Sayre, PA. Course work begins at Mansfield in the first semester. The following three semesters and intervening summer session consist of course work and clinical training at Robert Packer Hospital in Sayre. Clinical training at Robert Packer Hospital is supplemented by clinical experiences at St. Joseph's Hospital, Elmira, NY; Wilson Memorial Medical Center, Johnson City, NY; Troy Community Hospital, Troy, PA; and Crouse Irving Memorial Hospital, Syracuse, NY. The program is nationally accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the Committee on Accreditation for Respiratory Care (CoARC).

Respiratory therapists perform both diagnostic and therapeutic procedures related to the care of newborn infants, children, adults, and the elderly. Many therapists specialize in areas such as newborn and pediatric care, critical care, home care, cardiopulmonary diagnostic testing, helicopter transport, rehabilitation, education, or management.

This program prepares the student for a variety of career options and has a record of 100% employment of its graduates. Graduates are employed in hospitals, skilled nursing and rehabilitation facilities, home care, physician's offices, medical equipment supply companies, and colleges and universities. According to the Bureau of Labor statistics, this is one of the fastest growing professions, with a projected need for 49,000 new practitioners by the year 2005.

Graduates of this program are eligible for the National Board of Respiratory Care (NBRC) entry-level certification examination and have a 100% pass rate on this exam. Graduates passing this exam receive the Certified Respiratory Therapist (CRT) credential and qualify for the examinations for the NBRC Registered Respiratory Therapist credential (RRT).

PROGRAM REQUIREMENTS: Respiratory Therapy (A.A.S.): 71 s.h.
(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Human Anatomy & Physiology I	4
BSC	122*	Human Anatomy & Physiology II	4
CHM	101*	Introduction to Chemistry	4
CIS	103	Introduction to Microcomputers	3
COM	101	Oral Communication	3
ENG	112	Composition I	3
MA	128	College Algebra	3
PHL	191	Ethical Issues in Allied Health Care	3
PSY	101*	Introduction to Psychology	3
RTH	101	Fundamentals of Respiratory Care I	3
RTH	102	Fundamentals of Respiratory Care II	4
RTH	111	Pulmonary Function Testing	2
RTH	112	Arterial Blood Gases	1
RTH	199	Clinical Practicum I	2
RTH	200	Clinical Practicum II	5
RTH	209	Clinical Practicum III	3

RTH	210	Clinical Practicum IV	5
RTH	204	Pharmacology	2
RTH	207	Pulmonary Disease	2
RTH	208	Perinatal/Pediatric Respiratory Care	2
RTH	211	Mechanical Ventilation	4
RTH	212	Advanced Cardiopulmonary Care	3
SOC	101*	Introduction to Sociology	3
		Total semester hours	71

SECONDARY EDUCATION DEGREE PROGRAMS

Offered by the Department of Education and Special Education

The secondary education curriculum prepares students for middle school, junior high, and high school teaching. The curriculum is the combined responsibility of the Education and Special Education Department and the appropriate content area departments of the university. The program is based on the theme, "Teacher as Reflective Decision Maker," and provides students with depth in subject matter, preparation in instructional methodology, and a variety of field experiences culminating in student teaching in the senior year. The program features dual preparation in the content of the subjects the student will teach and preparation in instructional planning and teaching. Students in the program learn how to communicate subject matter clearly and effectively to promote secondary students' learning. Mansfield University offers secondary education programs in the following curricular areas: Biology, Chemistry, Earth and Space Science, English , French, German, Mathematics, Physics, Social Studies – Citizenship certification (with emphasis in History or Political Science), and Spanish. Many education majors also pursue graduate studies after graduation.

See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: SECONDARY EDUCATION

Specific course requirements for secondary education programs can be found in the sections for each content area department under the requirements for the B.S.E. degrees. (For example, the required courses in the secondary education Biology program are listed in the Biology Department section of the catalog under the heading "Biology Education B.S.E." degree requirements.)

SOCIAL WORK DEGREE PROGRAM

Offered by the Department of Social Work, Anthropology and Sociology
Professors Largey, Mabe, Wooley
Assistant Professors Sidell (chairperson), Keller, Madigan, Mansfield

Social Work

Mansfield University's Social Work Program is accredited by the Council on Social Work Education (CSWE) at the Baccalaureate level.

The mission of Mansfield University's Social Work Program is (1) to provide baccalaureate social work education based on a liberal arts perspective that prepares students for generalist social work practice in entry level positions in social services, (2) to maintain a diverse faculty who reflect the spirit and intent of principles of affirmative action and equal opportunity as a model for students, (3) to prepare students for graduate educa-

tion in social work, and (4) to provide continuing education and professional consultation to social agencies in the region.

The goals of the Social Work Program are (1) to prepare students to facilitate positive changes in the behavior of individuals, families, groups, organizations, and communities, (2) to teach students to recognize and respond appropriately to differences that occur in the behavior of diverse populations, (3) to enable students to act in accord with social work ethics and standards of practice, laws, regulations, and agency policies, and (4) to instill in students a value of lifelong learning as the principle mechanism for professional growth.

Our graduates begin their careers in child welfare, mental health and retardation programs, drug and alcohol programs, programs for the aging, hospitals, nursing homes, neighborhood centers, day care centers, and a variety of other public and private social service agencies. Many enter graduate schools of Social Work where they may apply for advanced standing based on the accredited status of our program. Advanced standing allows students to complete an M.S.W. in one calendar year rather than two, if attending classes full-time.

Persons with a bachelor's degree in Social Work are eligible for the second level (County Caseworker 2) examination offered by Pennsylvania's Civil Service Commission. Accreditation by the Council on Social Work Education provides access to licensing examinations in those states that regulate social work practice at the baccalaureate level.

Formal admission to the Social Work Program is obtained by applying to the university through the Office of Admissions or completing the appropriate petitions requesting to major in Social Work. Throughout the Professional program, students are expected to demonstrate their appropriateness for Social Work education. First, students complete three one-hour orientation courses. Next, prior to enrolling in SWK 300 or SWK 315, majors complete an "Intent to Continue" form that must be approved by their Social Work major advisor. Prior to enrolling in their first methods class (SWK 350, 352, 353 or 356), students apply for candidacy into the Social Work program. The completed candidacy application is reviewed by the Faculty Evaluation Committee and must be approved before methods courses are undertaken. Students are evaluated on their record of grade achievement (evidenced by a cumulative QPA of 2.50), evidence of professional commitment and participation in the field of Social Work and the adherence to the National Association of Social Workers' Code of Ethics. Prior to enrolling in Field Placement (SWK 452 and 453), an application for field placement must be completed and approved. This application is reviewed by the Faculty Evaluation Committee. Students are evaluated on their record of grade achievement in methods courses (a minimum of C or better in each course), evidence of continued professional commitment and participation in the field of Social Work and adherence to the Code of Ethics.

Students admitted to the program may not receive credit toward the BSW degree by virtue of life's experiences. Internship credits received in associate degree programs may not be applied to BSW program requirements.

Students intending to work with children in Pennsylvania must comply with the provisions of Act 34 of the PA Legislation requiring screening through the PA State Police and the Child Abuse Hotline.

The Social Work Program offers two minors: The Social Welfare minor prepares students majoring in business, criminal justice administration, computer sciences, psychology, biology, art, nursing, and others who intend to work in social welfare systems to understand those systems. The minor offers information on organizations, cultures, policies, and services as viewed from a sociological, anthropological and social work perspective.

The Gerontology minor is designed for students interested in working with the aging population. The interdisciplinary minor offers students exposure to the sociological, psychological, and social work aspects of aging.

PROGRAM REQUIREMENTS: Social Work, (B.S.W.) 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ANH	101*	Cultural Anthropology	3
BSC	104*	Human Biology	4
PSY	101*	Introduction to General Psychology	3
PSC	330	Public Policy	3
SOC	101*	Introduction to Sociology	3
SOC	121*	Contemporary Social Problems	3
SOC	232*	American Family Systems	3
SOC	307	Social Research I:Research Design & Data Collection	3
SWK	241	Introduction to Social Work	3
SWK	257	Social Work Program Orientation	1
SWK	258	Social Worker=s Professional Responsibilities	1
SWK	259	Current Professional Issues in Social Work	1
SWK	300	Human Behavior and the Social Environment	3
SWK	308	Evaluation Research	3
SWK	315	Evolution of Social Welfare in America	3
SWK	350	Social Work Methods: Small Groups	3
SWK	351	Social Work Methods: Organizations	3
SWK	352	Social Work Methods: Families	3
SWK	353	Social Work Methods: Individuals	3
SWK	452	Social Work Field Placement	12
SWK	453	Senior Seminar	3
		Total semester hours	67

SOCIOLOGY AND ANTHROPOLOGY DEGREE PROGRAM

Offered by the Department of Social Work, Anthropology and Sociology
Assistant Professors Sidell (chairperson), Keller, Madigan, Mansfield
Professors Largey, Mabe, Wooley

Sociology is the scientific study of human social behavior. Sociologists study the processes and patterns of individual and group interaction, the forms of organization of social groups, the relationships among them, and group influences on individual behavior. Focus is given to the understanding of group or other collective factors in human behavior.

Anthropology is the study of humankind. To incorporate all aspects of the human experience, anthropology has four major subdisciplines: Physical Anthropology, the study of the biological evolution of humans; Archaeology, the study of the evolution of culture; Linguistic Anthropology, the study of human languages; and Cultural Anthropology, the study of the variations and similarities of human behavior cross-culturally. The department offers introductory courses in all four subdisciplines but the major focus is in cultural anthropology.

The major in Sociology/Anthropology prepares students for a variety of careers in our increasingly multi-cultural society through critical thinking and evaluation, and appropriate research methods and analysis. The major is especially strong in social science research methods for which there is an ample job market. Students are encouraged to

choose a concentration in either Sociology or Anthropology, but a broad based, liberal education in both and interdisciplinary studies outside the department is strongly recommended. The program is designed to allow students maximum flexibility to pursue their interests and career goals and combines easily with minors in other disciplines.

A bachelor's degree prepares students for entry-level positions in marketing, political survey analysis, applied human relations in both the public and private sector, and research organizations. In addition, a concentration in Anthropology prepares students for employment in archaeology and the many organizations which hire anthropologists for applied human relations work with diverse cultures such as refugee and immigrant communities. The degree also prepares students for graduate work in either Sociology or Anthropology, and is an excellent background for advanced degrees in many other disciplines.

The department also offers the following minors: Anthropology, African-American Studies, Gerontology, Social Welfare and Sociology.

The Anthropology minor is designed to complement majors in the social sciences, humanities, and professional studies which train students to work with people who have backgrounds different from their own. Interest, however, is also a good reason.

The African-American minor is designed for students interested in the literary, historical, artistic, and sociological significance of African-American culture. It is a structured and interdisciplinary course of study.

The Sociology minor is especially recommended for Criminal Justice, Public Relations, Marketing, and Social Work majors.

PROGRAM REQUIREMENTS: Sociology/ Anthropology (B.A.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ANH	101*	Cultural Anthropology	3
SOC	307	Social Research I	3
SOC	308	Social Research II	3
ANH	410	Ethnographic Field Methods	3
ANH	480	Anthropological Theory	
		or	3
SOC	480	Sociological Theory	
ANH	490	Field Study	
		or	6-12
SOC	497	Independent Study	
PHL	230*	Introduction to Logic	3
SOC	101*	Introduction to Sociology	3
ANH/SOC	100/200	Electives	9
ANH/SOC	300/400	Electives	9
300/400	Humanities or Social Science Electives		6
		Total semester hours	48

SPANISH DEGREE PROGRAMS

Offered by the Department of Languages and Literature
Professors Koloski, Pifer, Sanders (chairperson), Sornberger
Associate Professors Barton, Blanco, Harris, Holtman, Murphy, Sullivan-Blum, Ulrich, Washington
Assistant Professors Doerksen, Keeth, Knee, Oyallon, Rashidi, Washington

The Languages and Literature Department offers B.A. and B.S.E. degrees in French, German, and Spanish. (See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.) The opportunity to complete basic through intermediate Russian is also available. By graduation students will have taken at least 34 semester hours in their foreign language major. These include courses in structure, phonetics and pronunciation, culture and civilization, and literature. Some students complete dual majors and many opt for minors; the latter are available in French, German, Spanish, and Latin American Studies, all of which can prove to be an employment advantage. This is only natural in an ever more interdependent world where the ability to function in international communications is at a premium. The influence of Hispanic culture is growing in the U.S. while French is still spoken in many countries and German has wide application, especially in Europe.

We strongly encourage students to participate in Study Abroad programs and believe that such participation should be part of the preparation of all aspiring foreign language teachers. But the benefits accrue as well to others who avail themselves of such an opportunity: they not only have a better understanding of other cultures but are in a stronger position to use the knowledge they have acquired in the pursuit of their careers. To date, students have taken part in programs in Ecuador, France, Germany, Mexico, Spain and Russia. Mansfield University has an exchange program with Volgograd State University in Russia, with Freidrich-Schiller Universität in Germany, and has initiated a study abroad program with the Universidad Nacional in Costa Rica.

The foreign language laboratory has booths where students practice listening, comprehension and speaking skills. This facility is also equipped with several computer stations and has satellite receiver capability. In classrooms too, videos, slides, and maps are presented in various courses to enhance the learning/cultural environment and help provide a background for the appropriate language.

Foreign Language study is useful or necessary in various careers in government agencies, and provides an expertise often called upon in many areas of business, travel and tourism, journalism, criminal justice administration, geography, history, communications, political science, social work, and education.

The Languages and Literature Department also offers minors in French, German, Spanish and Latin American Studies.

PROGRAM REQUIREMENTS: Spanish (B.A.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

SPA	201*	Intermediate Spanish I	3
SPA	202*	Intermediate Spanish II	3
SPA	205*	Pronunciation and Phonetics	1
SPA	305*	Spanish Conversation and Composition	3
SPA	306*	Culture and Civilization of Spain	3
SPA	307*	Culture and Civilization of Latin America	3
SPA	320*	Advanced Spanish Structure	3
SPA	330*	Survey of Spanish Literature I	

		or	3
SPA	331*	Survey of Spanish Literature II	
SPA	340*	Spanish-American Literature I	
		or	3
SPA	341*	Spanish-American Literature II	
SPA	xxx	Spanish Electives	9
		Total semester hours	34

PROGRAM REQUIREMENTS Spanish Education (B.S.E.): 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ED	102	Introduction to Education	3
ED	205	Educational Psychology	3
ED	260	Assessment in Education	3
ED	310	Content Area Reading and Writing	3
ED	311	Teaching Secondary Foreign Language	3
ED	320	Observation and Participation – Secondary	3
ED	400	Student Teaching	12
ED	460	Professional Seminar	2
HST	201*	American History through the Civil War	
		or	3
HST	202*	American History- Reconstruction to the Present	
PSY	101*	Introduction to General Psychology	3
PSY	290*	Life Span Development	
		or	3
PSY	321*	Adolescent Psychology	
SPA	201*	Intermediate Spanish I	3
SPA	202*	Intermediate Spanish II	3
SPA	205*	Pronunciation and Phonetics	1
SPA	305*	Spanish Conversation and Composition	3
SPA	306*	Culture and Civilization of Spain	3
SPA	307*	Culture and Civilization of Latin America	3
SPA	320*	Advanced Spanish Structure	3
SPA	330*	Survey of Spanish Literature I	
		or	3
SPA	331*	Survey of Spanish Literature II	
SPA	340*	Spanish-American Literature I	
		or	3
SPA	341*	Spanish-American Literature II	
SPA	xxx	Spanish Electives	9
SPE	275	Inclusion of Diverse Learners	3
		Total semester hours	78

SPECIAL EDUCATION DEGREE PROGRAM

Offered by the Department of Education and Special Education
Professors Cleland (chairperson), Straub (assistant chairperson), Brucklacher, Burns, Kyofski
Associate Professors Fuller, Floyd, Lucero, Woolley
Assistant Professors Benjamin, Dale, Wallace, Werner-Burke
Instructor Moore

CERTIFICATION REQUIREMENTS: Mansfield University teacher education programs are approved by the Pennsylvania Department of Education (PDE) and nationally accredited by the National Council for Accreditation of Teacher Education (NCATE). Candidates for teaching certification in Pennsylvania must meet state requirements described in Chapter 354 regulations. A description of requirements, policies, and procedures for teacher certification can be found in the catalog section entitled, "Teacher Education Certification." See page xx.

The special education program prepares students to work with exceptional individuals through prescriptive teaching and practicum courses. Students who complete the special education program receive a Bachelor of Science in Education degree and a Pennsylvania Instructional I teaching certificate. This comprehensive certificate allows students to teach children from kindergarten through 12th grade (K-12) who are disabled in the areas of mental retardation, emotional disturbance, autism, physical disability, learning disability and brain injury. This Pennsylvania certificate may be made permanent upon the completion of 24 post-baccalaureate credits, three years of satisfactory teaching in one's field of certification, and completion of an induction year program. Many special education major also pursue graduate studies after graduation.

See The Teacher Education Certification Section, Page 54, for further details regarding admission to teacher certification candidacy and Pennsylvania certification requirements.

PROGRAM REQUIREMENTS: Special Education (B.S.E.) 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)
(**pre-gate course – see "Teacher Education Certification" section)

PSY	101*	Introduction to General Psychology	3
SPE	101**	Introduction to Special Education	3
ED	102**	Introduction to Education	3
ED	205**	Educational Psychology	3
ELE	220**	Child Development	3
SPE	270	Mentally and Physically Disabled	3
SPE	275	Inclusion of Diverse Learners	3
SPE	280	Children in Need of Emotional Support	3
SPE	290	Learning Disabilities	3
SPE	300	Curriculum Development Adjustment	3
SPE	351	Behavior Management	3
SPE	370	Early Childhood Disabilities	3
SPE	380	Assessment in Special Education	3
ELE	383	Teaching Elementary Reading and Literature I	3
ELE	384	Teaching Elementary Mathematics	3
SPE	390	Methods for Individuals with Mild Disabilities	3

SPE	420	Observation and Participation – Special Education	3
SPE	440	Methods for individuals with moderate/severe disabilities	3
SPE	400	Student Teaching	12
SPE	460	Professional Seminar	2
SPE	300/400	Major related electives	6
		Total semester hours	74

PROGRAM REQUIREMENTS: Inclusive Special and Elementary Education (B.S.E.) 128 s.h.

(*courses with asterisk may also satisfy General Education requirements)
(**pre-gate course – see "Teacher Education Certification" section)

SPE	101**	Introduction to Special Education	3
PSY	101*	Introduction to General Psychology	3
ED	102**	Introduction to Education	3
ED	205**	Educational Psychology	3
ELE	220**	Child Development	3
SPE	270	Mentally and Physically Disabled	3
SPE	275	Inclusion of Diverse Learners	3
SPE	280	Children in Need of Emotional Support	3
SPE	290	Learning Disabilities	3
SPE	300	Curriculum Development Adjustment	3
SPE	351	Behavior Management	3
SPE	370	Early childhood Disabilities	3
SPE	380	Assessment in Special Education	3
ELE	383	Teaching Elementary Reading and Literature I	3
ELE	384	Teaching Elementary Mathematics	3
ELE	386	Teaching Elementary Social Studies	3
ELE	387	Teaching Elementary Science	3
SPE	390	methods for Individuals with Mild Disabilities	3
ELE	395	Creative Experiences in Elementary Teaching	3
ELE	403	Teaching Elementary Language Arts	3
SPE	420	Observation and Participation – Special Education	3
ELE	425	Teaching Elementary Reading and Literature II	3
SPE	440	Methods for Individuals with Moderate/Severe Disabilities	3
SPE	400	Student Teaching	12
SPE	460	Professional Seminar	2
		Total semester hours	83

SPORTS NUTRITION DEGREE PROGRAM

Offered by the Robert Packer Department of Health Sciences
Professor Sheehe (chairperson)
Associate Professors Biblehimer, Garrett, McGuire, Seigart, Wright, K.
Assistant Professors Crawshaw, DePumpo, Materese, McEwan
Instructors Treat, Vosburgh

The sports nutrition program is designed to prepare students for careers in corporate wellness centers, fitness centers, and university and commercial athletic teams. Individuals who wish to become Registered Dietitians in addition to sports nutritionists must take additional courses which will qualify them to apply for an American Dietetic Association Internship.

PROGRAM REQUIREMENTS: Sports Nutrition (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

BSC	121*	Anatomy and Physiology I	4
BSC	122*	Anatomy and Physiology II	4
BUS	130	Introduction to Business and Management	3
CHM	101*	Introduction to Chemistry	4
CHM	102*	Organic and Biochemistry	4
CHM	201	Introduction to Biochemistry	4
DIT	211	Introduction to Nutrition	3
DIT	305	Principles of Food Science	3
DIT	314	Nutrition Throughout the Life Cycle	3
DIT	316	Community Nutrition	3
DIT	325	Nutritional Counseling and Education	3
DIT	330	Sports Nutrition	3
DIT	417	Advanced Nutrition	3
DIT	420	Nutrition Research Seminar	3
DIT	xxx	Choice	3
HPE	360	Kinesiology	3
HPE	370	Physiology of Exercise	3
MA	125*	Introductory Statistics I	3
PSY	101*	Introduction to Psychology	3
		Total semester hours	62

STATISTICS (See Applied Statistics)

THEATRE DEGREE PROGRAMS

Offered by the Department of Communication, Theatre and Art
Professor Lapps
Associate Professors Carrish-Bulkley, Longoria, Wright, L. (chairperson) Young
Assistant Professor Crum
Instructors Alnor, Pieper

Theatre students with a degree in theatre can pursue careers in regional and even national theatre productions. A theatre degree is also an excellent liberal arts degree that can prepare students for careers in sales, law, graduate school, management, and more. Theatre students at Mansfield have the opportunity to become involved in leadership opportunities on stage and behind the scenes.

PROGRAM REQUIREMENTS: Theatre (B.S.): 120 s.h.

COM	400	Communication Theory	3
THT	210	Stagecraft	3
THT	212	Fundamentals of Acting I	3
THT	213	Fundamentals of Acting II	3
THT	305	Theatre History I	
		or	3
THT	306	Theatre History II	
THT	310	Fundamentals of Directing	3
THT	316	Theatre and Stage Management	3
THT	410	Internship	
		or	6
THT	450	Special Projects	
THT	300/400	Technical Elective	3
XXX	xxx	Related Electives (6 hrs. Dramatic literature)	18
		Total semester hours	48

TRAVEL AND TOURISM DEGREE PROGRAM

Offered by the Department of Business and Economics
Professors Kutty, Solan, Yacovissi
Associate Professors Carpenter, Gaballa, Ghods, Mitchell, Welch (Chairperson)
Assistant Professor Havalchak

The Travel and Tourism Program is the only one of its kind in the state and one of only a few in the nation. It combines courses in business, management, travel and tourism. It is excellent preparation for executive track careers in the travel, tourism, hospitality and leisure professions. Opportunities include tourism promoter, international or domestic travel and tourism agency, convention and special events planner and manager, destination marketer, hotel sales and marketing, tour operations and management, convention and visitors bureaus, resort management, car rental programs, and employment with the airlines and airports.

PROGRAM REQUIREMENTS: Travel and Tourism Concentration (B.S.): 120 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
BUS	230	Management Principles	3

BUS	330	Marketing	3
CIS	103	Introduction to Microcomputers	
		or	3
CIS	203	Software for Business Applications	
MA	125*	Introductory Statistics I	3
TRT	102	Introduction to Travel and Tourism	3
TRT	201	Computerized Reservations, Ticketing,	
		Travel Agency Operations	3
TRT	300	The Travel Consumer	3
TRT	321	World-Wide Destinations/Attractions	3
TRT	322	Travel-Tourism Site Development	3
TRT	410	Topical Seminar in Travel-Tourism	3
TRT	430	Tourism Wholesalers and Suppliers	3
TRT	480	Contemporary Issues in Travel and Tourism	3
TRT	xxx	Electives	6
XXX	xxx	Major Related Electives (ACC,BUS,ECO)	12
		Total semester hours	60

PROGRAM REQUIREMENTS: Travel and Tourism (A.S.): 60 s.h.

(*courses with asterisk may also satisfy General Education requirements)

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
BUS	230	Management Principles	3
BUS	330	Marketing	3
CIS	103	Introduction to Microcomputers	
		or	3
CIS	203	Software for Business Applications	
MA	125*	Introductory Statistics I	3
TRT	102	Introduction to Travel and Tourism	3
TRT	201	Computerized Reservations, Ticketing,	
		Travel Agency Operations	3
TRT	321	World Wide Destinations and Attractions	3
TRT	xxx	Elective	6
XXX	xxx	Major Related Electives	6
		Total semester hours	39

MINORS:

Accounting Minor: 18 s.h.

PROGRAM REQUIREMENTS

ACC	110	Principles of Accounting I	3
ACC	111	Principles of Accounting II	3
ACC	310	Intermediate Accounting I	3
ACC	315	Managerial Accounting	
		or	3
ACC	350	Cost Accounting I	
and 6 credit hours from the following:			
ACC	311	Intermediate Accounting II	3
ACC	314	(CIS) Automated Accounting Systems	3
ACC	320	Advanced Accounting I	3
ACC	351	Cost Accounting II	3
ACC	400	Auditing	3

ACC	475	International Accounting	3
BUS	410	Business Law I	
		or	
ECO	101	Principles of Macroeconomics	3
		or	
ECO	102	Principles of Microeconomics	

African-American Studies Minor: 18 s.h.:
PROGRAM REQUIREMENTS

The African-American minor is designed for students interested in the literary, historical, artistic, and sociological significance of African-American culture. It is a structured and interdisciplinary course of study.

6 s.h. from the following:

ENG	220*	Special Topics in Literature	3
ENG	305*	Comparative Literature	3
ENG	327	African American Literature	3
HST	310	Afro-American Experience	3
HST	388	History of Africa	3

Social Sciences - 6 credit hours from the following:

ANH	308	Sub-Sahara Africa	3
SOC	200	American Minorities	3
SOC	306	Interracial Seminar	3

Choose 3 credit hours from the following:

ENG	401*	Seminar in English Studies	3
HST	452	South Africa: From Cape Colony to Apartheid	3
HST	496*	Seminars on Selected Topics	3

Any 497 or 400 level course designated as an African or African-American Capstone course.

3 credit hours of electives from the following:

ARH	320	Art of Africa and Oceania	3
BUS	310	Managing Diversity	3
CJA	261	Community Policing	3
HST	304	History of the Civil War and Reconstruction	3
MU	201	Introduction to Jazz	3
MU	301	World Musics	3
SPE	275	Inclusion of Diverse Learners	3
SPE	330	Cultural Diversity in Special Education	3
SWK	201	African-Americans: an Inclusive View	3

or any course designated as an African-American course listed above not used to meet requirements. (*when offered as an African-American topic)

Anthropology Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Anthropology minor is designed to complement majors in the social sciences, humanities, and professional studies which train students to work with people who have backgrounds different from their own. Interest, however, is also a good reason.

ANH	101	Cultural Anthropology	3

6 credit hours from 100 & 200 level ANH courses by advisement

9 credit hours from 300 & 400 level ANH courses by advisement

Art Minor: 18 s.h.
PROGRAM REQUIREMENTS

A minor in Art may be declared by non-art majors and is designed to give the student a foundation in art theory and skills. A minimum of 18 to a maximum of 24 credits constitutes a minor. Required courses are listed below.

ARH	101	Introduction to Art	3
ART	210	Drawing	3
ART	241	Color and Design	3
ART	xxx	Art Electives (by advisement)	9

Biology Minor: 20 s.h.
PROGRAM REQUIREMENTS

The minor in biology is designed to broaden and expand the knowledge of students especially those in biology-related curricula. The requirements for a minor are a total of at least 20 hours of semester credit.

BI	110	Zoology	4
BI	130	Botany	4
BI	370	Cell Biology	4
BI	xxx	Biology Electives (200 level and higher)	8

Business Administration Minor: 18 s.h.
PROGRAM REQUIREMENTS

ACC	110	Principles of Accounting I	3
BUS	130	Introduction to Business and Management	3
BUS	230	Management Principles	3
BUS	30	Introduction to Finance	3
BUS	330	Marketing	3

and 3 credit hours by advisement

Canadian Studies MINOR: 18 s.h.
PROGRAM REQUIREMENTS

The formal study of Canada is a critical element in the education of the next generation of leaders, providing a significant, accessible avenue for understanding global interdependence and multicultural environments. Moreover, with Canada and the United States as each other=s largest trading partner, learning about Canada as a foreign market makes increasingly good economic sense, especially as the North America Free Trade Agreement (NAFTA) becomes fully implemented and international job mobility increases.

The Canadian Studies minor provides the student with an interdisciplinary approach to understanding the history, literature, economics, politics, business, fine arts, educational systems, and the physical and cultural environments of our northern neighbor. Building on the theoretical and practical content of the core course, the student selects courses from across the curriculum wherever Canadian content or perspectives are designated.

Requirements for Canadian Studies Minor

The minor (18 s.h.) consists of the core course, a seminar or internship, two directed electives, and two free electives. The core course, Introduction to Canada, counts as a Group I General Education Distribution requirement, whether or not the student completes the minor. One of the directed electives must be from arts, humanities, or languages; the other from the social sciences or professional studies. The two free electives may be chosen in consultation with the Director of Canadian Studies from among designated courses. The significant culminating requirement of the minor is either an in-depth seminar on a Canadian topic or an internship with a business or agency with Canadian interests.

Chemistry Minor: 22-24 s.h.
PROGRAM REQUIREMENTS

The department of Chemistry and Physics offers a minor in chemistry to all interested persons who fulfill the basic requirements of the programs. The minor, while not a degree program, is intended to permit students to develop their interest in chemistry and thereby broaden their background as they acquire marketable skills.

CHM	111	General Chemistry I	4
CHM	112	General Chemistry II	4
CHM	301	Organic Chemistry I	4
CHM	302	Organic Chemistry II	4
CHM	xxx	Chemistry Elective (300 or 400 level, except CHM 410, 490, or 497)	6-8

Communication Minor: 18 s.h.
PROGRAM REQUIREMENTS

A minor in communication is available for students who want to communicate effectively in a variety of situations, understand the theory of communication, and explore global diversity as they interact in interpersonal and organizational settings.

COM	325	Interpersonal Communication	3
COM	360	Organizational Communcation	3
COM	xxx	Choice from: COM 200, 203, 330, 334, or 336 (as approved)	6
COM	xxx	Choice from: COM 400, 401, 425, 440, or 455 (as approved)	6

Computer Science Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Computer Science minor provides a strong background in computation and programming for students majoring in a technical, scientific, or mathematical area.

CIS	104	Computer Science I	3
CIS	204	Computer Science II	3
CIS	301	Data Structures	3
CIS	330	Computer Organization	3

6 credit hours of CIS courses at 300/400 level

Creative Writing Minor: 15 s.h.
PROGRAM REQUIREMENTS

15 credits minimum (beyond the required composition courses) to include:

ENG	202	Creative Writing	3
ENG	312	Introduction to Fiction Writing	
		or	3
ENG	314	Introduction to Poetry Writing	
ENG	411	Advanced Fiction Writing	
		or	3
ENG	412	Advanced Poetry Writing	
		or	
ENG	414	Creative Non-Fiction Prose	
	or		
ENG	416	Novel Writing	

6 credit hours of creative writing electives

Criminal Justice Administration Minor: 18 s.h.
PROGRAM REQUIREMENTS

CJA	100	Introduction to Criminal Justice	3
CJA	200	Survey of Policing	3
CJA	201	Survey of Corrections	3
CJA	xxx	CJA Electives (300/400 level)	9

Economics Minor: 18 s.h.
PROGRAM REQUIREMENTS

ECO	101	Principles of Macroeconomics	3
ECO	102	Principles of Microeconomics	3
ECO	301	Intermediate Macroeconomic Theory	3
ECO	302	Intermediate Microeconomic Theory	3
ECO	xxx	Economics Electives	6

English Literature Minor: 18 s.h.
PROGRAM REQUIREMENTS

The English department also offers four minors: Creative Writing, Literature, Professional Writing, and Women's Studies. Students in the English B.A. and B.S.E. programs must complete study of a foreign language through the 202 level. In addition, they may wish to complete a minor in Creative Writing, Professional Writing or Women's Studies as a way of adding a content emphasis to their undergraduate course of study.

18 credits minimum (beyond the required composition courses) to include:

ENG	115	Introduction to Literature	3
ENG	203	Readings in Ancient Literature	
		or	
ENG	204	Readings in World Literature	
		or	3
ENG	220	Special Topics in Literature	
		or	
ENG	268	Survey of British Literature I	
		or	
ENG	269	Survey of British Literature II	
ENG	278	Survey of American Literature I	
		or	3
ENG	280	Survey of American Literature II	

6 credit hours of English Electives selected from ENG 350 through 401.

Environmental Studies Minor: 21 s.h.
PROGRAM REQUIREMENTS

The environmental studies minor allows students of all majors to engage in a fully interdisciplinary course of study focused on the relationship between people and the natural world. This enterprise is designed to deepen understanding of the humanities and the sciences and to suggest ways those disciplines can be integrated. This minor will also help students to be more effective citizens in a world where the earth's population of 5.6 billion is projected to double during their lifetimes and the demand for resources will increase.

GEG	122	Environmental Issues	3

3 credits hours from the following

BSC	103	Environmental Biology	3
CHM	103	Chemistry and the environment	3

GEL	102	Environmental Geology	3
ES	300	Humans in Nature	3

9 credit hours of electives distributed over three blocks (social, creative, and natural) at least 6 credit hours of which must be at the 300/400 level

ES	497	Independent Study	3

Forensic Science Minor: 19 s.h.
PROGRAM REQUIREMENTS

The department of Chemistry and Physics offers a minor in forensic science to all interested persons who fulfill the basic requirements of the programs. The minor, while not a degree program, is intended to permit students to introduce relevant introductory chemistry, biochemistry and physics to give students sufficient background so that they can to understand their application in forensic science. In addition, the student will develop an understanding of the legal implications involved in evidence collection and presentation.

CHM	110	Survey of Chemistry	4
SCI	107*	Physical Science I	3
SCI	104*	Forensic Science	3
CJA	336	Criminalistics	3
CHM	264	Chemical Methods in Forensic Science	3
PHY	264	Physical Methods in Forensic Science	3

French Minor: 15 s.h.
PROGRAM REQUIREMENTS

FR	201	Intermediate French I	3
FR	202	Intermediate French II	3
FR	xxx	French electives at the 300/400 level	9

General Computing Minor: 18 s.h.
PROGRAM REQUIREMENTS

The General Computing minor provides a solid background in computing that is custom-tailored to the student's field of study. This minor is primarily intended for students in majors other than business, mathematics, and the sciences.

CIS	203	Software for Business Applications	3
CIS	303	Computer Networks	3

6 credit hours from the following

CIS	102	Visual Basic Programming	3
CIS	103	Introduction to Microcomputers	3
CIS	104	Computer Science I	3

6 additional credit hours in computer related courses chosen in consultation with the departmental advisor.

Geography Minor: 18 s.h.
PROGRAM REQUIREMENTS

GEG	101	World Regional Geography	3
GEG	102	Human Geography	3
GEG	111	Physical Geography	
		or	3
GEG	122	Environmental Issues	
GEG	xxx	GEG electives (upper level)	9

Geology Minor: 18 s.h.
PROGRAM REQUIREMENTS

GEL	102	Environmental Geology	3
GEL	121	Physical Geology	3
GEL	xxx	GEL electives (upper level)	12

German Minor: 15 s.h.
PROGRAM REQUIREMENTS

GER	201	Introductory German I	3
GER	202	Introductory German II	3
GER	xxx	German electives at the 300/400 level	9

Gerontology Studies Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Gerontology minor is designed for students interested in working with the aging population. The interdisciplinary minor offers students exposure to the sociological, psychological, and social work aspects of aging.

SOC	101	Introduction to Sociology	3
SWK	320	Gerontology	3
SOC	322	Sociology of Aging	3
PSY	324	Adult and Development and Aging	3
SWK	300	Human Behavior and the Social Environment	
		or	
PSY	290	Life Span Development	3
		or	
PSY	421	Death and Dying	
SWK	497	Independent Study	
		or	
PSY	497	Independent Study	3
		or	
SOC	497	Independent Study	

History Minor: 18 s.h.
PROGRAM REQUIREMENTS

HST	111	World Civilization to 1500	
		or	3
HST	112	World Civilization 1500-1900	
HST	201	American History Through the Civil War	
		or	3
HST	202	American History – Reconstruction to the Present	
HST	xxx	HST electives (minimum 6 s.h. 300/400 level)	12

Information Systems Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Information Systems minor provides a strong background in office applications software and systems analysis for students majoring in business-related fields of study.

CIS	102	Visual Basic Programming	3
CIS	203	Software for Business Applications	3
CIS	303	Computer Networks	3
CIS	310	Systems Analysis	3
CIS	401	Management Information Systems	3

BUS	130	Introduction to Business and Management	
		or	3
BUS	230	Management Principles	

International Studies Minor: 21s.h.
PROGRAM REQUIREMENTS

ANH	101	Cultural Anthropology	3
GEG	101	World Regional Geography	3
PSC	210	World Politics	3
PSC	212	Comparative Politics	3
3 credit hours from the following			
HST	366	Twentieth Century Europe	3
HST	377	History of Latin America	3
HST	387	Latin American History	3
		or	
HST	388	History of Africa	3
6 credit hours from the following			
ANH	301	World Cultures	3
ANH	308	Sub-Sahara Africa	3
PSC	312	Canada, Mexico, U.S.	3
PSC	415	U.S. Foreign Policy	
		or	3
ECO	333	International Economics	

Latin American Studies Minor: 18 s.h.
PROGRAM REQUIREMENTS

PSC	312	Canada, Mexico and The U.S.	3
HST	376	Modern Latin America	
		or	3
SPA	307	The Culture and Civilization of Latin America	

12 credit hours of electives from the following (choose four prefixes):

ANH	101, 301*, or 350*
ARH	323 or 324
BUS	333*, 403*, 404*, or 422
ECO	205* or 333*
ENG	220*, 305*, or 401*
HST	232, 375, 415 or 470
MU	301*
PSC	212*, 412*, or 415*
SOC	200
SPA	340, 341, or 400*
SPE	330*
WS	355

*25% Latin American content in course required in semester offered to apply to minor.

Marketing Minor: 18 s.h.
PROGRAM REQUIREMENTS

BUS	330	Marketing	3
BUS	415	Marketing Management	3

ECO	101	Principles of Macroeconomics	
		or	3
ECO	102	Principles of Microeconomics	

and 9 credit hours of electives from the following:

COM	210	Introduction to Public Relations	3
BUS	332	Promotion in Marketing	3
BUS	334	Marketing Research	3
BUS	370	Salesmanship	3
BUS	420	Topical Seminar/Marketing for Non-Profit Organizations	3
BUS	421	Topical Seminar/Marketing Channels of Distribution	3
BUS	422	Topical Seminar/International Marketing	3
BUS	423	Topical Seminar/Industrial Marketing	3
BUS	424	Topical Seminar/Sales Force Management	3
BUS	425	Topical Seminar/Current Marketing Problems	3

Mathematics Minor: 17 s.h.
PROGRAM REQUIREMENTS

The minor in mathematics provides a strong background in mathematics but is flexible enough to be tailored to a variety of different majors.

MA	231	Calculus I	3
MA	232	Calculus II	3
MA	314	Applied Probability and Statistics	3

6 credit hours of math courses at 200 level or above.

Music Minor: 24 s.h.
PROGRAM REQUIREMENTS

The Music Department offers a Music minor for students in other majors with appropriate interest and aptitude to obtain a minor in music.

MU	211	Basic Music I	3
MU	212	Basic Music II	3
MU	220	Western Music Until 1750	3
MU	221	Classic and Romantic Music	3
MU	xxx	Music electives excluding MU 101	6

4 credit hours in major performance area
2 credit hours in large ensemble.

Nutrition Minor: 18 s.h.
PROGRAM REQUIREMENTS

The nutrition minor provides the student with a strong background in nutrition as related to the student's field of study. This minor is especially suited to students in health care fields other than nutrition, students who wish to work with eating disordered individuals, future educators and coaches, future journalists, and anyone else who may need a strong background in nutrition.

DIT	211	Introduction to Nutrition	3
DIT	305	Principles of Food Science	3
DIT	314	Nutrition Throughout the Life-cycle	3

3 credit hours from the following

DIT	220	Nutrition and Fitness	3
DIT	300	Cultural Nutrition	3
DIT	316	Community Nutrition	3
DIT	325	Nutrition Education and Counseling	3

6 credit hours from the following

DIT	330	Sports Nutrition	3
DIT	410	Medical Nutrition Therapy I	3
DIT	402	Medical Nutrition Therapy II	3
DIT	417	Advanced Nutrition	3
DIT	420	Nutrition Research Seminar	3

Philosophy Minor: 18 s.h.
PROGRAM REQUIREMENTS

Eighteen semester hours in philosophy are required, with at least nine of these being at the upper division level.

Physics Minor: 21 s.h.
PROGRAM REQUIREMENTS

The department of Chemistry and Physics offers a minor in physics to all interested persons who fulfill the basic requirements of the programs. The minor, while not a degree program, is intended to permit students to develop their interest in physics and thereby broaden their background as they acquire marketable skills.

PHY	210	General Physics I	4
PHY	211	General Physics II	4
PHY	311	Modern Physics I	3
PHY	312	Modern Physics II	3
PHY	315	Analog Electronics	4
PHY	xxx	Physics Elective (300 or 400 level)	3

Political Science Minor: 18 s.h.
PROGRAM REQUIREMENTS

9 credit hours from the following

PSC	100	Introduction to Politics	
		or	3
PSC	235	Research Methods	
PSC	201	American Politics	
		or	3
PSC	204	State and Local Politics	
PSC	210	World Politics	
		or	3
PSC	212	Comparative Politics	
PSC	xxx	PSC electives at the 300 and/or 400 level	9

Pre-Law Minor: 18 s.h.
PROGRAM REQUIREMENTS

Mansfield University has an active and successful effort in the preparation of students for the study of Law. This program centers around the Pre-Law Association and the Pre-Law Academic Minor. Pre-Law is administered by the Philosophy and Liberal Studies Department. Dr. Thomas Young is the Pre-Law advisor. His office is in South Hall 315; his email address is tyoung@mnsfld.edu.

The Pre-Law Association is an active, student-funded organization which supplies students with various types of support in preparation for law school. This includes trips to law school fairs, advice concerning LSAT preparation programs, advice on studying for the LSAT, visits to Mansfield University from law school recruiters, advice on applying to law schools, discussions by visiting alumni attorneys or law students, etc. In order to ensure that students expressing the intention of enrolling in law school will receive the

support they need, these students are brought in to Mansfield University as Philosophy majors. Such students are not at all required to remain Philosophy majors, but they are expected to discuss an appropriate major for themselves with the Pre-Law advisor, depending on the area of law they anticipate practicing.

The Pre-Law minor consists of 18 semester hours. Introduction to Logic (PHL 230) is required. Eighteen hours are taken as electives from an approved list of courses in Communication, Philosophy, Political Science, and Psychology.

Mansfield University has special arrangements with several law schools in our general geographical area. These agreements facilitate the acceptance of qualified Mansfield University students into their programs. Request specific information from Dr. Young. (See first paragraph above.)

Professional Writing Minor: 18 s.h.
PROGRAM REQUIREMENTS

18 credits minimum (beyond the required composition courses) to include:

ENG	230	Writing for Business	3
ENG	330	Technical Writing	3
ENG	401	Seminar in Literary Study (when offered as Professional Writing Seminar)	3
9 credit hours from the following			
COM	230	Writing for Broadcasting Media	3
ENG	202	Creative Writing	3
ENG	414	Creative Non-Fiction Prose	3
ENG	497	Independent Study	3
JN	100	Introduction to Journalism	3
JN	210	Media Design	3
JN	310	Specialized News and Feature Writing	3
JN	320	Magazine Writing and Production	3

Psychology Minor: 21-22 s.h.
PROGRAM REQUIREMENTS

Minors are available in Psychology and Psychology of Human Development. The Psychology minor provides a general survey of the field. The Psychology of Human Development minor provides more focused study in areas of child, adolescent, or adult development.

PSY	101	Introduction to General Psychology	3
PSY	290	Life Span Development	3
PSY	391	Abnormal Psychology	3
6 credit hours from the following			
PSY	301	Theories of Counseling	3
PSY	310	Social Psychology	3
PSY	430	Theories of Personality	3
PSY	410	Industrial and Organizational Psychology	3

or 6-7 credit hours that includes MA 125 and either PSY 201 or 250.

Psychology of Human Development Minor: 18 s.h.
PROGRAM REQUIREMENTS

PSY	101	Introduction to General Psychology	3
PSY	290	Life Span Development	3
PSY	391	Abnormal Psychology or	3

PSY	430	Theories of Personality	
6 credit hours from the following			
PSY	292	Child Psychology	3
PSY	321	Adolescent Psychology	3
PSY	323	Cognitive and Moral Development	3
PSY	324	Adult Development and Aging	3
3 credit hours from the following			
PSY	210	Psychology of Family Relations	3
PSY	212	Human Sexuality	3
PSY	310	Social Psychology	3
PSY	421	Death and Dying	3
PSY	422	Psychology of Women	
		or	3
PSY	430	Theories of Personality	

Regional Planning Minor: 18 s.h.
PROGRAM REQUIREMENTS

RPL	102	Introduction to Regional Planning	3
RPL	342	Land Use Policy	3
RPL	494	Planning Seminar	3
And 9 credit hours from the following			
GEG	280	Cartography	3
GEG	364	Geostatistics	3
GEG	270	Geography Information Systems	3
GEG	430	Modern Cartographic Techniques	3

Social Welfare Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Social Welfare minor prepares students majoring in business, criminal justice administration, computer sciences, psychology, biology, art, nursing, and others who intend to work in social welfare systems to understand those systems. The minor offers information on organizations, cultures, policies, and services as viewed from a sociological, anthropological and social work perspective.

SOC	101	Introduction to Sociology	
		or	3
ANH	101	Cultural Anthropology	
SOC	121	Contemporary Social Problems	3
SWK	101	Human Services	3
SWK	241	Introduction to Social Work	3
SWK	300	Human Behavior and the Social Environment	3
SWK	315	(HST) Evolution of Social Welfare in America	3

Sociology Minor: 18 s.h.
PROGRAM REQUIREMENTS

The Sociology minor is especially recommended for Criminal Justice, Public Relations, Marketing, and Social Work majors.

SOC	101	Introduction to Sociology	3
SOC	121	Contemporary Social Problems	3
SOC	xxx	SOC electives by advisement	12

Spanish Minor: 15 s.h.
PROGRAM REQUIREMENTS

SPA	201	Intermediate Spanish I	3
SPA	202	Intermediate Spanish II	3
SPA	xxx	Spanish electives at the 300/400 level	9

Statistics Minor: 15 s.h.
PROGRAM REQUIREMENTS

The minor in statistics provides a strong background in statistics useful in many disciplines. Students may tailor this minor to their interests by careful choice of courses.

12 credit hours from the following

MA	125	Introductory Statistics I	3
MA	126	Introductory Statistics II	3
MA	301	Survey of Mathematical Models	3
MA	308	Operations Research	3
MA	314	Applied Probability and Statistics	3
MA	315	Applied Regression Analysis	
		or	3
MA	371	Mathematical Statistics I	

3 credit hours from the following

BI	350	Ecology	3
BUS	349	Quantitative Business Anaylsis	3
CIS	306	Business Programming Concepts II	3
ECO	305	Econometrics	3
ECO	310	Business and Economic Forecasting	3
ECO	405	Mathematical Economics	3
MA	170	Fundamental Concepts of Calculus	3
NUR	361	Introduction to Nursing Research	3
PSC	235	Research Methods	3
PSY	201	Tests and measurements	
		or	3
SOC	308	Social Research II: Analysis Interpreta	

Theatre Minor: 21 s.h.
PROGRAM REQUIREMENTS

THT	110	Introduction to Theater	3
THT	210	Stagecraft	3
THT	212	Fundamentals of Acting I	3
THT	214	Make-up	3
THT	310	Fundamentals of Directing	3
THT	312	Stage Lighting	
		or	3
THT	313	Scene Design	
THT	314	Play Production Practices	3

Travel and Tourism Minor: 15 s.h.
PROGRAM REQUIREMENTS

TRT	102	Introduction to Travel-Tourism	3
TRT	480	Contemporary Issues Travel-Tourism	3
TRT	xxx	Travel and Tourism Electives (by advisement)	9

Women's Studies Minor: 18 s.h.

PROGRAM REQUIREMENTS

WS	100	Introduction to Women's Studies	3
ENG	220*	Special Topics in Literature	
		(*when offered with Women's Studies content)	
		or	
ENG	401	Seminar in Literary Studies	3
		or	
HST	201	American History Through the Civil War	
		or	
MU	205	Women in Music	
ANH	250	Anthropology of Gender	
		or	
PSY	422	Psychology of Women	3
		or	
COM	334	Gender and Communication	
WS	410	Seminar in Women's Studies	3

6 credit hours of women's studies electives selected through consultation with the Women's Studies advisor.

VIII. COURSE DESCRIPTIONS

Courses marked with an * asterisk may satisfy General Education requirements. Be sure to consult with your advisor.

ACCOUNTING

ACC 110 PRINCIPLES OF ACCOUNTING I 3 cr.
Introduces the accounting cycle; balance sheet and income statement preparation; accounting for cash, receivables, inventory, property, plant, and equipment; current liabilities.

ACC 111 PRINCIPLES OF ACCOUNTING II 3 cr.
A continuation of 110: long-term liabilities, owners equity of partnerships and corporations, and statement of cash flow. Introduces managerial accounting concepts, including manufacturing accounting and budgets, and financial ratio analysis. Prerequisite ACC 110.

ACC 310 INTERMEDIATE ACCOUNTING I 3 cr.
An intensive study of accounting principles and problems of fairly presenting a financial position; measurement of assets, liabilities; preparation of financial statements. Prerequisite: ACC 111.

ACC 311 INTERMEDIATE ACCOUNTING II 3 cr.
Further study of generally accepted accounting principles; corporate earnings per share, tax allocation, pensions, leases, inflation. Prerequisite: ACC 310.

ACC 314 (CIS) AUTOMATED ACCOUNTING SYSTEMS 3 cr.
An introduction to the development and implementation of an accounting information system. A real commercial system will be analyzed and then used by students to process accounting case studies. Prerequisites: ACC 111, CIS 203.

ACC 315 MANAGERIAL ACCOUNTING 3 cr.
Examines management strategies to develop budgets and product costs and ways to control company costs and expenses. Prerequisite: ACC 111.

ACC 320 ADVANCED ACCOUNTING I 3 cr.
Examines partnerships, accounting, corporate mergers, and consolidated financial statements; non-profit accounting, foreign currency transactions, and other topics vary. Prerequisite: ACC 311 or permission of instructor.

ACC 350 COST ACCOUNTING I 3 cr.
Explores budget planning, product costing, break-even and variance analysis, cost behavior, and cost allocation. Prerequisite: ACC 111.

ACC 351 COST ACCOUNTING II 3 cr.
A continuation of 350. More cost behavior, decision models, regression analysis and linear programming applications, capital budgeting, economic order quantity, and ethical considerations are examined. Prerequisite: ACC 350 or permission of instructor.

ACC 380 TOPICAL SEMINAR 3 cr.
The study of selected topics in accounting and current issues in financial reporting such as: non-profit accounting, governmental accounting, international accounting, income tax legislation. Prerequisite: ACC 311.

ACC 390 INTRODUCTION TO FEDERAL TAX ACCOUNTING 3 cr.
Explores the application of the personal income tax law to the taxpayer as an individual and a business proprietor.

ACC 400 AUDITING 3 cr.
A systematic process of objectively obtaining and evaluating evidence for the purpose of rendering an opinion and communicating the results to interested users. Prerequisite: ACC 320 or permission of instructor.

ACC 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

ANTHROPOLOGY

***ANH 101 CULTURAL ANTHROPOLOGY 3 cr.**
Introduction to culture as a conceptional model and to the variations in behavior systems found among human societies. Cultural institutions are examined including the processes associated with their development and change.

***ANH 102 PHYSICAL ANTHROPOLOGY: HUMAN EVOLUTION 3 cr.**
An introduction to human evolution with an emphasis on fossil evidence, genetic and cultural evolution up to Homo sapiens. Theoretical and methodological issues are covered in depth. Prerequisite: Biology 101 strongly recommended.

***ANH 250 ANTHROPOLOGY OF GENDER 3 cr.**
An introduction to the cultural diversity of gender roles with emphasis on the roles of women, gender bias, and cultural definitions of men and women. Contemporary gender issues are studied within a variety of cultural contexts.

ANH 260 ARCHAEOLOGICAL METHODS 4 cr.
Course examines excavation techniques, description, analysis, and interpretation of archaeological sites. Students will be involved in ongoing archaeological research in the local area and will participate in both archaeological field testing and laboratory analysis

***ANH 280 ANTHROPOLOGICAL LINGUISTICS 3 cr.**
This course teaches the basics of anthropological linguistics which provides pronunciation, grammar, structure, and vocabulary needed to know and understand linguistics.

ANH 301 WORLD CULTURES 3 cr.
Comparative study of selected major cultural areas of the world. Institutional patterns characterizing the cultural complexes of Europe and Southwest Asia, South Asia, Southeast Asia, North and South America and Africa south of the Sahara will be examined. Prerequisite: permission of instructor. Dual listed with 501.

ANH 305 NATIVE NORTH AMERICANS: CULTURES 3 cr.
Provides an understanding of native cultures before contact with Europeans.

ANH 308 SUB-SAHARA AFRICA 3 cr.
An in depth study of the diversity of African cultures south of the Sahara Desert. An overview of Sub-Saharan African cultures will be presented followed by detailed studies of representative cultures from each of the linguistic and cultural areas.

ANH 350 SELECTED TOPICS SEMINAR 1-6 cr.
Review of a specialty area in anthropology or the study of a problem from an interdisciplinary position. May be taken for one through six credits.

ANH 410 ETHNOGRAPHIC FIELD METHODS 3 cr.
Examines qualitative field work methods of participation and unstructured interviews. The student is introduced to him/herself as actor in social situations and analyzes campus life (small segments).

ANH 440 ANTHROPOLOGY OF BELIEF SYSTEMS 3 cr.
This course explores how societies construct meaning through belief systems. Symbolic systems will be explored cross-culturally, including indigenous religion, witchcraft, magic, shamanism, and cultural spirituality. Major emphasis will be on anthropological theories of symbolic forms. Prerequisites: ANH 101 and at least two upper level courses in anthropology or permission of instructor.

ANH 480 ANTHROPOLOGICAL THEORY 3 cr.
A seminar on the history and development of anthropological thought from social evolution through post-processual theory. The course covers both macro and mid-range theories and current trends in the anthropological perspective. Prerequisites: Upper class standing in the anthropology/sociology major.

ANH 490 FIELD STUDY 3-12 cr.
Supervised field work in any subdiscipline of anthropology: physical, archaeology, linguistic, or cultural anthropology. Individually arranged. Prerequisites: upper class standing in the anthropology tract of the sociology/anthropology major, or permission of the instructor.

ANH 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits.

ART EDUCATION

ARE 101 INTRODUCTION TO ART EDUCATION 1 cr.
An introduction to the teaching experience through projects, discussions,, and observations. Includes some teaching of elementary and high school students.

ARE 343 ARTS AND CRAFTS IN THE SPECIAL EDUCATION CURRICULUM 3 cr.
Creative work in a variety of activities with arts and crafts materials. Particular emphasis is on the needs of special education classes.

ARE 388 HISTORY AND PHILOSOPHY OF ART EDUCATION 3 cr.
Acquaints the student with social, historical, and philosophical developments in education and art education.

ARE 390 ART CURRICULUM AND TEACHING IN ELEMENTARY SCHOOLS 3 cr.
Provides in-depth experience in lesson plan writing and creating curriculum in art at the elementary level. Students have the opportunity to teach children in an art program which includes pre-school through elementary grades under the guidance of the professor. Emphasis is placed upon developing an understanding of motivation and classroom management in preparation for the semester of student teaching.

ARE 392 TEACHING ART IN THE ELEMENTARY GRADES 3 cr.
Examines the philosophy and principles of art education in the elementary school curriculum with experience in the development of self-expression through a variety of public school art materials and activities as a basis for understanding and evaluating children's art work.

ARE 393 ART CURRICULUM AND TEACHING IN SECONDARY SCHOOLS 3 cr.
Provides in-depth experience in lesson plan writing and creating curriculum in art at the

secondary level. Students have the opportunity to teach art at Mansfield High School under the supervision of the professor with the cooperation of a high school art teacher. Emphasis is placed upon developing an understanding of motivation and classroom management in preparation for the semester of student teaching. Prerequisite: ARE 390

ARE 394 CURRICULUM DEVELOPMENT IN ART EDUCATION 2 cr.
Investigation of the concepts, attitudes, and values of art theory and practice as related to curriculum; a study of classroom problems and procedures in various teaching situations.

ARE 400 STUDENT TEACHING 12 cr.
Provides practical experience in teaching art at the elementary and secondary levels under the guidance of a cooperating teacher. Observations and conferences scheduled by the departmental supervisor are held on a periodic basis. Enables students to apply knowledge and skills acquired in the Art Education program. ARE 400 is required for students seeking certification to teach. Prerequisite: 2.5 Q.P.A.

ARE 444 ART AND RECREATION FOR THE HANDICAPPED CHILD 6 cr.
A three-week workshop with instruction in and practical application of art and recreation for the handicapped child in connection with the Easter Seal Society of Pennsylvania. The first part is on campus for several days in a classroom situation. The second part is in an Easter Seal Society camp for the two-week session, living, working, and playing with young handicapped children 24 hours a day under the direction and supervision of both camp and university professionals.

ART HISTORY

ARH 101 INTRODUCTION TO ART 3 cr.
An approach to the dominant movements and ideas of the Western World as they evolved in visual arts from the cave art origins to the 20th Century systems.

ARH 102 SURVEY OF ART 3 cr.
An intercultural, interdisciplinary approach to dominant movements and ideas as they evolved in visual arts. Examines philosophic commonality of purpose which becomes intertwined with man's record of history.

ARH 320 ART OF AFRICA AND OCEANIA 3 cr.
The study of prehistoric and primitive art from the Paleolithic period: Africa, Asia, Australia, Europe, Mexico, the Americas, and the South Seas. Prerequisite: ARH 101, 102 or permission of instructor.

ARH 321 ANCIENT AND MEDIEVAL ART 3 cr.
Comprehensive study of architecture, sculpture, and painting from the ancient through Gothic periods; emphasis on aesthetic values and historical implications, iconographic and symbolic significance. Prerequisite: ARH 101 or 102.

ARH 322 ART OF THE RENAISSANCE 3 cr.
Comprehensive study of architecture, painting, and sculpture in Italy, Flanders, Holland, Germany, England, France, and Spain with emphasis on the general characteristics of the Renaissance. Prerequisite: ARH 101 or 102 or permission of instructor.

ARH 323 BAROQUE AND ROCOCO ART 3 cr.
A comprehensive study of painting, sculpture, and architecture from 1600 to 1750 in Italy, Flanders, Germany, Austria, Holland, Spain, France and England. Prerequisite: ARH 101, 102 or permission of instructor.

ARH 324 NATIVE ARTS OF THE AMERICAS 3 cr.
A survey of the native arts of North, Central, and South America during the pre-Columbian and historic periods. Painting, sculpture, architecture, and crafts will be examined.

ARH 326 ORIENTAL ART 3 cr.
Study of art in China, India, and Japan in the areas of architecture, painting, pottery, sculpture, and the minor arts. Trace influences central to the development and spread of important styles and the relationship of art to the classics of Oriental aesthetics.
ARH 327 HISTORY OF PRINTS 3 cr.
The history of printmaking and the significant influences of Eastern and Western cultures on the graphic processes. Prerequisite: ARH 101 or 102 or permission of instructor.

ARH 328 HISTORY OF ARCHITECTURE 3 cr.
Study of architecture, styles, and methods of construction from the earliest civilizations to the present. Analyzes the outstanding contributions in architecture of the various cultures with emphasis on further development and influences, citing important examples and their architects. Prerequisite: ARH 101 or 102 or permission of instructor.

ARH 329 HISTORY OF AFRICAN-AMERICAN ART 3 cr.
Survey of Early African art to contemporary African-American art, appraises the past and present performance of African-American artists and their contributions to American art history.

ARH 330 HISTORY OF AMERICAN ART 3 cr.
Comprehensive study of the heritage of American art from the Limners and Artisans of colonial times through the 20th century in painting, architecture, and sculpture; emphasizing aesthetic values, movements, trends, and contributions of significant artists. prerequisites: art 101, 102, or permission of instructor.

ARH 331 HISTORY OF MODERN ART 3 cr.
Comprehensive study of the development of modern art from 19th century neoclassicism through contemporary movements, emphasizing aesthetic values, historical implications, and contributions of significant artists. Prerequisites: ARH 101, 102, or permission of instructor.

ARH 401 CULTURAL ORIGINS OF ART 1 - 9 cr.
A travel-study seminar abroad visiting various countries around the world. Provides intensive study of the humanities and cultures from which various art styles emerge. Lectures will be conducted throughout the tour by the director. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed with 501. May be taken for one through nine credits.

ARH 407 EMPIRES OF THE WORLD THROUGH ART 3 cr.
Explores the use of art and architecture of various empires as images of power and political statement. The Roman, Byzantine, Holy Roman, Ottoman, Russian, and British empires will be examined. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed with 507.

ARH 408 ART AND MYTHOLOGY OF ANCIENT GREECE 3 cr.
Explores the relationship between art and mythology in ancient Greece from the Bronze Age through the Classical and Hellenistic periods. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed with 508.

ARH 409 WOMEN IN ART 3 cr.
A study of the accomplishments and contributions of women in art and architecture

from antiquity to the 20th century. Women as subjects in art will also be examined with emphasis on the cultural and artistic milieu in which they are represented. Prerequisite: ARH 101, 102 or permission of instructor. Dual listed with 509.

ARH 410 WOMEN IN ANCIENT GREEK ART 3 cr.
This course explores women as subjects and patrons of ancient Greek art, with emphasis on the cultural and artistic milieu in which they are represented.

ARH 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

ART

ART 101 INTRODUCTION TO ART 2 cr.
A study of representative works of art through the ages for both increased aesthetic perception and deepened awareness of universal human experience.

ART 201 PAINTING 3 cr.
Introduction to the methods, techniques, and approaches of the painter. Emphasis is placed on composition, application, and involvement in creative self-expression. The understanding and use of the media for solving various problems of representation is stressed. Dual listed with 511.

ART 210 DRAWING 3 cr.
Builds those skills and attitudes necessary for the remainder of the program. Introduces the two and three dimensional aspects of drawing and develops personal power of expression. Designed to stimulate creative thinking, develop a sensitivity to the art elements, sharpen impressions and the visual memory. Dual listed with 510.

ART 218 PHOTOGRAPHY 3 cr.
The study of black and white, and digital photography. Emphasis is on camera skills, darkroom techniques, and the understanding of photographic imagery.

ART 231 PRINTMAKING 3 cr.
Introduction to the printmaking processes of linocut, woodcut, lithography, serigraphy, etching, intaglio, and drypoint with emphasis on their use for creative expression. Dual listed with 514.

ART 240 TWO-DIMENSIONAL DESIGN 3 cr.
An introduction to two-dimensional design through the use of various media. This course will explore the creative use of color and elements of design, stressing their function and relationships.

ART 244 THREE-DIMENSIONAL DESIGN 3 cr.
Three-Dimensional Design is an introduction to the relationship between ideas and the creation of three-dimensional objects. Students will explore the principles and elements of design as they apply to the creation of three-dimensional works of art.

ART 251 JEWELRY 3 cr.
Study of two and three dimensional design concepts with emphasis on individual solutions in the medium of metal. Both precious and common materials will be used. Traditional techniques of jewelry making will be explored. Dual listed with 516.

ART 261 WATER BASE MEDIA 3 cr.
Explores water base media (transparent, gouache, acrylic polymer) with the intent of

establishing a broad base of understanding needed to accomplish personal goals. Dual listed with 513.

ART 271 CERAMICS 3 cr.
The study of hand and wheel methods of forming. Introduces the principles of glaze formulation, kiln stacking, and firing. Dual listed with 515.

ART 281 SCULPTURE 3 cr.
Exploration of three dimensional design as related to sculpture. Basic techniques of stone and wood carving will be explored in addition to various methods of material build-ups (wood, plaster, Plexiglas, metal, etc.). Dual listed with 519.

ART 298 PUPPETRY 3 cr.
Devoted to the production and exploration of a variety of puppets, both traditional and contemporary. Concentrates on creative imagery to develop characterization with special emphasis on the utilization of puppets in free play, impromptu, stage, scripted productions, and special performances. Dual listed with ART 521.

ART 300 VISUAL STUDIES IN AESTHETIC EXPERIENCES 3 cr.
Studies the philosophic theories of art, aesthetic experience, principles and criticism in the nature and comprehension of the character of arts, the artist, and his/her relationship to life.

ART 302 ADVANCED PAINTING 1 - 12 cr.
Direction of the course of study is determined by the student and instructor.
Prerequisite: ART 201 or permission of instructor. May be taken for one through twelve credits.

ART 311 ADVANCED DRAWING 1 - 12 cr.
The direction of the course of study is determined by the student and instructor.
Prerequisite:
ART 210. May be taken for one through twelve credits.

ART 318 ADVANCED PHOTOGRAPHY 1 – 6 cr.
A more in-depth study and understanding of black and white and digital photography. prerequisite: ART 218. May be repeated for a maximum of 12 credits.

ART 332 ADVANCED PRINTMAKING 1 - 12 cr.
The direction of the course of study is determined by the student and instructor.
Prerequisite:
ART 231. May be taken for one through twelve credits.

ART 342 ADVERTISING, DESIGN AND LETTERING 3 cr.
Introduction to advertising. A comprehensive survey of basic principles and practices in advertising, their relation to economy, society, and system of mass communication. Psychological and creative factors involved in advertising, design, campaign, media, and research are explored.

ART 345 FIBERS 3 cr.
A creative application of the principles and elements of design and color theory to fibers and fabrics. Develops skills in textile techniques and an understanding of the functional and aesthetic possibilities of fibers and fabrics. Techniques include: weaving, hooking, rya knotting, crochet, knitting, macrame, stitchery, tie dye, batik, block print, dye painting, spinning, quilting, basketry. Dual listed with 517.

ART 346 FIBERS WORKSHOP 3 cr.
Explores the principles of fabric construction as applied to practical uses, the functional and aesthetic uses of fibers, color, and design in textiles, and how to design specifically

for textile techniques, sources for materials and equipment, including the building of simple equipment.

ART 347 WEAVING SPINNING 1 - 3 cr.
Explores spinning, weaving, and basic structure of fiber and fabric starting with basic skills and advancing to drafting and weaving your own fabric. May be taken for one through three credits.

ART 352 ADVANCED JEWELRY 1 - 12 cr.
The direction of the course of study is determined by the student and instructor. Prerequisite: ART 251. May be taken for one through 12 credits.

ART 362 ADVANCED WATER BASE MEDIA 1 - 12 cr.
The direction of the course of study is determined by the student and instructor. Prerequisite: ART 261. May be taken for one through 12 credits.

ART 365 COMPUTER ART 1 - 6 cr.
Introduction to the methods, techniques, and approaches of the computer for graphic application and provide an effective, workable knowledge of computer graphic design that can be applied to the area of creative expression and teaching. May be taken for 1 through 6 credits.

ART 372 ADVANCED CERAMICS 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 271. May be taken for one through 12 credits.

ART 382 ADVANCED SCULPTURE 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 281. May be taken for one through 12 credits.

ART 396 ADVANCED CRAFTS 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 295. May be taken for one through 12 credits.

ART 403 SEMINAR 1 cr.
Provides art students with the opportunity to exchange ideas, enhance critical dialectic, and to participate in activities relevant to the professional artist. The activities in this course will assist the student in developing his/her portfolio and exhibition skills.

ART 404 SPECIAL PROBLEMS IN ART 1 - 6 cr.
Designed for students interested in extending their scope or gaining depth in specific academic areas related to art and/or education. Since needs and conditions change with each student, the requirements and restrictions are determined by and arranged with the chairperson. May be taken for 1 through 6 credits.

ART 442 ADVANCED ADVERTISING, DESIGN, AND LETTERING 1 cr.
An advanced course that explores the principles and practices of advertising and their relation to society and mass communication. Emphasis will be placed on new computer technology in the field of design, research, and media. Prerequisite: ART 342.

ART 445 ADVANCED FIBERS 1 - 12 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 345. May be taken for 1 through 12 credits.

ART 465 ADVANCED COMPUTER ART 1 - 6 cr.
Introduction to the methods, techniques and approaches of the computer for graphic application. To provide an effective, workable knowledge of computer graphic design that can be applied to the area of creative expression and teaching. Prerequisite: ART 365. May be taken for 1 through 6 credits.

ART 489 INTERNSHIP 1 - 12 cr.
A practical experience in a selected field of artistic endeavor designed to meet the students needs. May be taken for 3 through 12 credits.

ART 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

ART 498 ADVANCED PUPPETRY 1 - 6 cr.
Direction of the course of study is determined by the student and instructor. Prerequisite: ART 298, similar background, or permission of instructor. May be taken for 1 through 6 credits.

ASTRONOMY

***AST 105 THE EXPLORATION OF THE SOLAR SYSTEM 3 cr.**
A descriptive astronomy course concerning contemporary astronomical and astrophysical theories about the solar system.

***AST 106 ONE POSSIBLE UNIVERSE 3 cr.**
A descriptive astronomy course concerning contemporary astronomical and astrophysical theories about the universe.

***AST 108 OBSERVING THE AUTUMN SKY 1 cr.**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during autumn. Students also learn pertinent historical, legendary, and astronomical facts about them.

***AST 109 OBSERVING THE WINTER SKY 1 cr.**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during winter. Students also learn pertinent historical, legendary, and astronomical facts about them.

***AST 110 OBSERVING THE SPRING SKY 1 cr.**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during the spring. Students also learn pertinent historical, legendary, and astronomical facts about them.

***AST 111 OBSERVING THE SUMMER SKY 1 cr.**
Concentrates on the constellations, stars, and other celestial objects found in the evening sky during the summer. Students also learn pertinent historical, legendary, and astronomical facts about them.

AST 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

BIOLOGY

BI 100 ORIENTATION TO BIOLOGY 1 cr.
Orientation to scientific disciplines with particular emphasis on biological sciences. Features guest speakers both from within and outside the university who will address

current trends and opportunities in the biological fields. Required of all biology majors. Prerequisite: Biology major.

***BI 110 ZOOLOGY 4 cr.**
An evolutionary approach to the study of the animal kingdom, with attention given to the development of organ systems throughout the several phyla of invertebrates and vertebrates. Function, correlated with structure and taxonomic features, is emphasized. Additional evidence for evolution is included through an introduction to genetics, embryology, and ecology.

BI 111 FISH CULTURE I 3 cr.
The technology of controlled husbandry of fish in flowing water. Major emphasis on solving problems relative to the intensive aquaculture. Prerequisite: BI 100 and 110 or permission of instructor.

BI 112 FISH CULTURE II 3 cr.
The technology of controlled husbandry of fish in standing water. Major emphasis on the science of extensive aquaculture. Prerequisite: BI 110.

***BI 130 BOTANY 4 cr.**
A study of plant structure, function, development diversity, and evolution. Practical applications in forestry, agronomy, gardening, and horticulture are included. Prerequisite: BIO 100 or permission of instructor.

***BI 251 TROPICAL MARINE BIOLOGY 1 cr.**
Tropical marine communities are among the richest and biologically most diverse in the oceanic environment. This course provides insight into the biology/ecology of the mangrove, inter-tidal, and coral reef ecosystems. A week-long visit to the tropics which includes snorkeling and diving provides students with firsthand experience.

BI 310 PHYSIOLOGY 4 cr.
A systematic study of the life processes and functions of the animal body with particular emphasis on the mammalian vertebrate. Prerequisite: BI 110.

BI 312 VERTEBRATE ANATOMY 3 cr.
A history of vertebrates and comparative systems through the major vertebrate groups correlating their historical development. Prerequisite: BI 110.

BI 313 ENTOMOLOGY 3 cr.
Survey of the classification, structure, physiology, biology and economic importance of insects. An introduction to the study of insects as a major segment of the biological community. Laboratory exercises on anatomy and practice in the techniques of insect identification. Prerequisite: BI 110.

BI 314 ICHTHYOLOGY 3 cr.
A laboratory and field study of the fishes inhabiting the lakes and rivers of this area constitute the major portion of this course. Collection, measurement and chemical data as related to fish populations, management, and meristic characters will be collected and analyzed. Prerequisite: BI 110.

BI 315 FISH PATHOLOGY 3 cr.
A consideration of the diagnosis and treatment of diseases commonly found in hatchery fish. Diseases of bacterial, viral, parasitic, and environmental origin are studied together with recommended treatment for each. Prerequisite: BI 110.

BI 316 INVERTEBRATE ZOOLOGY 3 cr.
An integral evolutionary approach to the anatomy, physiology, and ecology of protozoan Protista and Animalia phyla: Porifera through nonvertebrate Chordata. Prerequisite: BI 110.

BI 317 PARASITOLOGY 3 cr.
A systematic study of host-parasite relationships. Emphasis involves life-cycles and comparative characteristics of parasitic protozoans, helminths and arthropods. Prerequisite: BI 110.

BI 330 PLANT PHYSIOLOGY 3 cr.
Designed to develop an understanding of the chemical and physical processes occurring in plants including respiration, photosynthesis, hormonal activity, osmosis, transpiration, mineral absorption and translocation. The laboratory work will involve analysis of these functions. Prerequisite: BI 130.

BI 331 LOCAL FLORA 3 cr.
Taxonomic and ecological study of local flowering and non-flowering plants. Prerequisite: BI 130.

BI 350 ECOLOGY 4 cr.
A study of the fundamental ecological principles of plants and animals in their environment.

BI 351 LIMNOLOGY 3 cr.
A study of the ecology of inland waters with emphasis on the chemical, physical and biological factors which influence productivity. Coverage also includes water use and pollution control, pollution evaluation techniques and regulatory information. Prerequisite: BI 350.

BI 352 MANAGEMENT OF SMALL IMPOUNDMENTS 3 cr.
Theory, practice, and demonstration of managing farm ponds for optimal sport fishing. Prerequisite: BI 350. Dual listed with 561.

BI 353 MANAGEMENT OF STREAMS AND LARGE IMPOUNDMENTS 3 cr.
Theory, practice, and demonstration of managing streams, rivers, natural lakes, and large impoundments for optimal sport fishing. Prerequisite: BI 350. Dual listed with 562.

BI 354 MARINE BIOLOGY 3 cr.
Studies basic to the biology and ecology of marine organisms. Practical applications such as biological/ecological sampling techniques and species identification are covered in the laboratory and on a coastal field trip. Prerequisite: BI 350.

BI 355 PALEOBIOLOGY 3 CR.
Examines the origin and subsequent evolution of life over the past four billion years. The paleobiology and geologic history of major animal and plant groups are discussed. The course includes field trips to local and regional fossil sites. Prerequisites: BI 110, BI 130 and BI 350.

BI 357 EPIDEMIOLOGY 3 cr.
The study of distribution and determinants of disease and injury in populations. Provides an introduction into community health and medical problems and services. Problem solving, case-control studies, and statistical analysis are emphasized. Prerequisite: BI 350.

BI 370 CELL BIOLOGY 4 cr.
A study of the cellular level of life with emphasis on cellular structures and their relationship to movement, function, and energy transformation. Cellular genetics and the cellular approach to medicine are also discussed.

BI 371 MICROBIOLOGY 4 cr.
An introductory course with emphasis on the basic principles and concepts of microbi-

ology concerning anatomy, classification, physiology, medical and practical uses of micro-organisms. The laboratory helps students develop aseptic technique. Prerequisite: BI 370.

BI 372 GENETICS 3 cr.
A study of basic principles and concepts of classical and molecular genetics. Emphasis will be on linkage analysis, structural, biochemical and molecular genetics. Prerequisite: BI 370.

BI 373 GENETIC RESEARCH 2 cr.
Study and application of cell and molecular genetics techniques to prokaryotes and eukaryotes. Students will become acquainted with the methodologies of modern genetic research and biotechnology. Prerequisite: BI 370 and 372 or permission of instructor.

BI 374 IMMUNOLOGY 3 cr.
The study of antigens and antibodies encompassing the fields of the immune response, autoimmunity, allergic reactions, tumor immunology, tissue graft and transplant biology. Prerequisite: BI 370.

BI 375 DEVELOPMENTAL BIOLOGY 3 cr.
A comparative survey of the development of representative animals from several phyla with emphasis on gamete formation, fertilization, embryonic development, organogenesis, growth, and biological aging. The laboratory combines examples of live plant and animal development with prepared slides of frog and chick embryology. Prerequisite: BI 370.

BI 376 ANIMAL HISTOLOGY AND BASIC MICRO TECHNIQUES 3 cr.
A systematic study of the microanatomy of the vertebrate body starting with cells and tissues and working through the complete organ systems. Prerequisite: BI 370.

BI 378 TISSUE CULTURE 2 cr.
The study of eukaryotic cell culture and molecular techniques. Students will become competent in tissue culture methods used in research laboratories. One hour lecture, three hours lab per week. Prerequisites: BI 370 and BI 371 or permission of instructor.

BI 390 BIOSTATISTICS AND EXPERIMENTAL DESIGN 3 cr.
Presents to science students a description of the processes of experimental design, selection of appropriate statistical tests to analyze experimental data, and performance of these tests using current software.

BI 391 EVOLUTION 3 cr.
A study of the basic theory, mechanism, and pathways of natural selection. Also studies the development of evolutionary thought from antiquity to the current gradualist and punctuated equilibrium models. Both genetic and paleontological data are analyzed in examining micro and macro evolutionary scenarios.

BI 392 HUMAN DIMENSIONS IN FISH MANAGEMENT 3 cr.
A consideration of how fish populations become structured and the effects of various rates of exploitation upon these structures. A practical explanation of relative efficiencies of different fish management practices on maintaining fishery yields desirable to anglers is emphasized.

BI 450 INTERNSHIP 1 - 12 cr.
The biology internship gives students the opportunity to apply knowledge and skills in the biological sciences while working with a public or private agency involved in aspects of applied biology. The practical experience thus acquired both supplements

and reinforces the more academic aspects of biology stressed in the classroom. May be taken for 1 through 12 credits. No more than 10 credits count toward the major.

BI 470 MOLECULAR BIOLOGY 3 cr.
An examination of the principles and techniques underlying the chemical and physical aspects of living systems. A study of the structure and activities of biological molecules which, properly integrated, constitute all forms of life. The laboratories will demonstrate techniques of the activities, separation and analysis of these molecule forms. Prerequisite: BI 370.

BI 471 CELL PHYSIOLOGY 3 cr.
A study of a specialized field of cell biology which emphasizes phenomena dealing with the nature of the cell membrane and its transport activities, the reaction of cells to changes in environment, the mechanism of cell excitability and contraction, and other manifestations of cellular functioning such as nutrition, growth and secretion. Prerequisite: BI 370.

BI 491 AQUACULTURE RESEARCH 1 - 3 cr.
A special research project is initiated by the student to increase his/her expertise in investigating a scientific problem and reporting the results in the form of a scientific paper. The research is conducted under the guidance of a faculty member who has special expertise in the subject area. May be taken for one through three credits.

BI 496 SEMINAR 1 cr.
Study and research projects involving investigation of recent literature in the field of biology; preparation of seminar papers on assigned problems.

BI 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

BI 498 (GEG 465) SEMINAR IN ENVIRONMENTAL SCIENCE 1 cr.
An upper level seminar that integrates and applies concepts and skills taught in the basic courses of the environmental science emphasis.

***BSC 101 GENERAL BIOLOGY 4 cr.**
An introduction to biological processes; study and discussion of these processes together with ecological aspects of life. The laboratory stresses demonstration and analysis of biological processes.

***BSC 102 CONTEMPORARY BIOLOGICAL PROBLEMS 3 cr.**
There is no fixed syllabus. Topics are current and usually changed for each semester. Guest lecturers will be given time to present their specialties.

***BSC 103 ENVIRONMENTAL BIOLOGY 3 cr.**
General education course for non-science majors. It provides students with biological explanations of environmental issues such as pollution, acid rain, global warming, environmental toxicology, forestry, wildlife conservation, etc.

***BSC 104 HUMAN BIOLOGY 4 cr.**
An overview of the human organism. Emphasis involves organization, maintenance, movement and support, integration, reproduction, genetics, evolution, and ecology of humans.

***BSC 121 HUMAN ANATOMY AND PHYSIOLOGY I 4 cr.**
This course presents an integrated approach to the study of the anatomy and physiolo-

gy of the various organ systems of the human body.

***BSC 122 HUMAN ANATOMY AND PHYSIOLOGY II 4 cr.**
A continuation of BSC 121. This completes an integrated approach to the study of the anatomy and physiology of the various organ systems of the human body.

BSC 250 FIELD METHODS IN ENVIRONMENTAL BIOLOGY 3 cr.
A survey of the methods employed in ecological studies of terrestrial and aquatic environments; includes extensive amounts of field work, data analysis and technical report preparation. Prerequisite: BSC 101 or equivalent. BI 350 recommended.

***BSC 271 MICROBIOLOGY FOR HEALTH SCIENCES 4 cr.**
An introductory course for health science students emphasizing the basic principles and concepts of microbial anatomy, classification, physiology, and their practical applications as well as developing aseptic techniques. Prerequisites: None. Offered every spring.

BUSINESS

BUS 130 INTRODUCTION TO BUSINESS AND MANAGEMENT 3 cr.
Studies an overview of the broad concept of business functions. Provides a foundation for understanding the relationship between essential activities of business. Helps students to determine and pursue their areas of interest and aptitude.

BUS 150 WOMEN IN MANAGEMENT 3 cr.
This course examines management structure and practice in relation to women; their goals, expectations, attitudes, and skills. The difficulties women encounter in being successful in management will be analyzed and strategies which both men and women can use in changing the situation will be discussed. The course will emphasize case studies.

BUS 202 PERSONAL FINANCE 3 cr.
The focus of this course is to provide financial decision making tools and techniques of money management. The course will analyze handling of financial records, financing of home and automobiles, financing of education, estate and retirement planning.

BUS 230 MANAGEMENT PRINCIPLES 3 cr.
Explains the world of professional management, and has the basic management functions of planning, organizing, leading, and controlling are changing. An emphasis on the contemporary challenges facing management: quality, ethics, global issues and information technology.

BUS 260 SMALL BUSINESS MANAGEMENT 3 cr.
Introduces students to the REAL (Rural Entrepreneurship Through Action Learning) Program, which aids in the development of a business plan. The course stresses the necessary knowledge unique to running and managing a small firm. It focuses on the business planning process and the characteristics important in running a successful business.

BUS 301 INTRODUCTION TO FINANCE 3 cr.
Examines basic concepts and techniques for identifying and solving elementary financial management problems. Topics include compound interest and time value of money, financial statement analysis, working capital management, cash flow analysis and capital budgeting, short-term financing, and stockholder equity valuation. Prerequisite: ECO 101 and MA 125.

BUS 302 MANAGERIAL DECISION MAKING 3 cr.
Examines decision making as a multi-dimensional process. A variety of models and

frameworks, quantitative and qualitative, are offered as a rational approach to managerial decisions. Prerequisite: BUS 230.

BUS 310 MANAGING DIVERSITY 3 cr.
Presents in-depth information of changes in demographic composition, cultural profiles, values, and lifestyles. Provides students with necessary skills to effectively function in the global marketplace, manage employee differences, and improve productivity.

BUS 321 ENVIRONMENT AND MANAGEMENT OF INTERNATIONAL BUSINESS 3 cr.
Provides a managerial view point of the dynamics of international business. Topics covered include history and scope of international business, international trade theory, foreign direct investment, governmental influences on trade and regional economic integration, and sociocultural and legal factors on MNC's. Prerequisite: BUS 230, ECO 101 and 102.

BUS 330 MARKETING 3 cr.
Introduces the nature of marketing activities, consumer behavior and motivation. Focuses on an individual firm managing its marketing efforts in relation to market forces and marketing opportunities. Emphasis on development of product, price, promotion, and distribution policies in order to achieve planned marketing programs. Prerequisite: ECO 101 or 102, or permission of instructor.

BUS 332 PROMOTION IN MARKETING 3 cr.
Examines the promotion functions of the marketing program. It also helps students to analyze marketing communication opportunities, planning, and execution of the marketing program. Prerequisite: BUS 330.

BUS 333 (ECO) INTERNATIONAL FINANCIAL MANAGEMENT 3 cr.
Designed to study the mechanism of international business finance. Topics covered include the study of foreign exchange market, Eurodollar market, inflow and outflow of capital to and from the U.S., the effect of U.S. interest rate on imports and exports, and foreign exchange risk. Prerequisite: ECO 102 and MA 125.

BUS 334 MARKETING RESEARCH 3 cr.
Provides an in-depth examination of market research tools and techniques. Emphasis is on effectiveness of the total efforts in an atmosphere of tight budgetary and fiscal control. Also reviews successful efforts and stresses on practical application of theory. Prerequisite: BUS 330 and MA 125, permission of instructor.

BUS 349 QUANTITATIVE BUSINESS ANALYSIS 3 cr.
Provides a systematic application of modern quantitative tools and techniques in practical situations. Topics include hypothesis testing, probability distribution, simple and multiple regression, and time series analysis. Prerequisite: MA 125.

BUS 350 OPERATIONS MANAGEMENT 3 cr.
A study and use of analytical tools for demand forecasting, use of system design and measurement, inventory control and resource allocation. Specialized and analytical techniques are used to deal with practical situations. Prerequisite: MA 125 and 170 or MA 231.

BUS 360 INTERNATIONAL MANAGEMENT 3 cr.
Presents in-depth description of the emerging field of international management. Comprehensive coverage of both the strategic and behavioral dimensions of international management. Exploring key cultural issues and problems in management across frontiers related to leadership, decision making, motivation and control. It deals with the unique managerial risks and challenges resulting from complicated economic, legal-

political and sociocultural forces. Prerequisites: BUS 230.

BUS 370 SALESMANSHIP 3 cr.
Provides students with entry level skills for a position in sales. Recognizes the necessary skills and characteristics that contribute toward greater sales effectiveness. Stresses the importance of establishing realistic goals and objectives; to manage your time and selling activities more effectively. The primary objective, however, is to gain an understanding of personal selling as a major function within the marketing and promotional mix of a firm. Prerequisite: BUS 330 or permission of instructor.

BUS 380 MANAGERIAL FINANCE 3 cr.
This course focuses on functions and responsibilities of financial managers in various organizations. Emphasis will be placed on financing, investment, and dividend policy decision of an organization. Topics include opportunity cost of capital, risk and rate of return, capital investment analysis, and theorems of capital structure. Prerequisites: ECO 101 and MA 125.

BUS 402 CORPORATE FINANCE 3 cr.
Focus on how individuals, financial institutions, and corporations make investment and financing decisions over multiple time period in an uncertain environment. Topics include theory of choice, efficient capital markets, CAPM and APT, capital budgeting under uncertainty, capital structure theories and policies, dividend policy, mergers and restructuring, and elements of international financial management. Prerequisite: BUS 301, CIS 103, ECO 102, MA 125 and 170 OR MA 231.

BUS 403 BUSINESS AND AMERICAN FOREIGN POLICY 3 cr.
Provides a systematic look at the U. S. Foreign policy on international business. Topics covered include economic, social and political objectives of foreign policy, the impact of foreign policy on East-West trade relations, emerging market economies in eastern Europe and U.S. foreign policy, NAFTA, GATT, GSP and U.S. multinational corporations. Prerequisite: ECO 101 or 102 and BUS 230.

BUS 410 BUSINESS LAW I 3 cr.
Introduces the legal environment of business and its role in modern society. Topics include the formation of contracts, sales, negotiable instruments, bank deposits and collections, secured transactions, and business organization. Emphasizes social and ethical considerations, terminology, fundamental legal principles, and analysis.

BUS 411 BUSINESS LAW II 3 cr.
Continued study of legal principles including agency, property, Federal Securities law, and bankruptcy. Emphasis is placed on the case law approach and problem solving. Prerequisite: BUS 410.

BUS 415 MARKETING MANAGEMENT 3 cr.
An in-depth examination of contemporary micro and macro marketing systems. Examines functional marketing decisions through the application of behavioral concepts, quantitative tools, and systems theory. Also presents advanced marketing techniques used by marketing organizations. Looks at individual behavior in order to evaluate the buying behavior of consumers with the objective of tailoring marketing strategies to meet consumers' needs and wants. Prerequisite: BUS 330 and junior standing, or permission of instructor.

BUS 420 TOPICAL SEMINAR/MARKETING FOR NON-PROFIT ORGANIZATIONS 3 cr.
Marketing for Non-Profit Organizations.

BUS 421 TOPICAL SEMINAR/MARKETING CHANNELS OF DISTRIBUTION 3 cr.
Marketing Channels.

BUS 422 TOPICAL SEMINAR/INTERNATIONAL MARKETING 3 cr.
Examines the application of marketing concepts and strategies in the global markets. Emphasis is on adjusting and adapting a marketing program to foreign markets. Provides an understanding of differences between markets in different countries, its politics, legal, culture, trade practices, geography, and commercial policies. Studies export and import procedures and practices. Prerequisite: BUS 330 or permission of instructor.

BUS 423 TOPICAL SEMINAR/INDUSTRIAL MARKETING 3 cr.
Industrial Marketing.

BUS 424 TOPICAL SEMINAR/SALES FORCE MANAGEMENT 3 cr.
Sales Force Management.

BUS 425 TOPICAL SEMINAR/CURRENT MARKETING PROBLEMS 3 cr.
Current Marketing Problems.

BUS 435 INVESTMENT THEORY 3 cr.
Introduction to financial policy with special emphasis on the practical application of risk-return theory. Investment decisions by individuals and firms, in stocks and bonds and other securities, made on the basis of incomplete information in an uncertain environment is covered. Prerequisite: ECO 102 and MA 125.

BUS 441 FINANCIAL STATEMENT ANALYSIS 3 cr.
Analyzes financial statements issued by public held organizations. Emphasis is on the use of financial statements by creditors, investors, and those who are external to the enterprises. Topics include cash flow analysis, standards of financial analysis, and off-balance sheet financing. Prerequisite: ACC 111, BUS 301 and MA 125.

BUS 450 ORGANIZATIONAL INTERNSHIP 1 - 15 cr.
Supervised and evaluated participation in the regular activities of a business, government, agency, or appropriate organization. In consultation with the supervising faculty member, the student is expected to prepare a comprehensive final report relating to the work accomplished during the field experience. May be taken for 1 through 15 credits. No more than 6 credits count toward the major.

BUS 451 BEHAVIORAL APPROACH TO MANAGEMENT 3 cr.
An examination of theories, concepts, and research findings emerging from the various disciplines which study individual and group behavior within organizational systems. Prerequisite: Bus 230.

BUS 490 BUSINESS POLICY 3 cr.
This capstone course addresses general management skills that integrates the various functions of the organization. An analysis of the problems and complexities of strategic decision making. Develop skills in formulating strategic considerations using environmental analysis, resource assessment, assumption development, goal determination, strategy formulation, implementation and performance evaluation. Prerequisite: Senior standing.

BUS 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

MEDICAL INFORMATION CODING

CD 100 FUNDAMENTALS OF MEDICAL TERMINOLOGY 3 cr.
This course introduces students to medical terminology and the language of medicine.

CD 105 BASIC ICD-9-CM CODING 5 cr.
This course introduces students to nomenclature and coding classification sytems. Basic ICD-9-CM coding concepts are also presented. Prerequisites: CD 100 and CD 120.

CD 110 BASIC CPT, HCPCS, AND M CODING 5 cr.
This course introduces students to basic ambulatory coding concepts and basic CPT, HCPCS, and E and M coding.

CD 120 HEALTH INFORMATION MANAGEMENT FOR CODERS 3 cr.
Students are introduced to billing and reimbursement in this course.

CD 205 ADVANCED ICD CODING 5 cr.
This course builds on the principles taught in CD 105. More advanced concepts of ICD-9-CM coding and Prospective Payment Systems (PPS) and Diagnostic Related Groups are presented. Prerequisite: CD 105.

CD 210 ADVANCED CPT, HCPCS, E AND M CODING 5 cr.
This course introduces students to advanced ambulatory coding concepts and advanced CPT, HCPCS, and advanced E and M coding. Prerequisite CD 110.

CD 215 INSURANCE AND REIMBURSEMENT 3 cr.
Students are introduced to billing and reimbursement in this course. Prerequisites: CD 100 and CD 220 PHARMACOLOGY AND PHYSIOLOGY FOR MEDICAL CODING AND TRANSCRIPTION 3 cr.
This course introduces students to pharmacology and pharmacotherapeutics appropriate for common medical problems encountered in medical coding and medical transcription. It also includes study of clinical pathology, including cytology, histology, and autopsy procedures. Prerequisites: CD 105 and CD 110.

CANADIAN STUDIES

***CDN 101 INTRODUCTION TO CANADA 3 cr.**
An interdisciplinary course. Provides a comprehensive introduction to Canada stressing the basics of geography, history, economics, politics, and culture before taking up various contemporary issues, among them: constitutional reform, environmental issues, and the sovereignty of Canada's Native People.

CDN 370 FOREIGN STUDY – CANADA 1-3 cr.
Open to students who wish to study in Canada. Plans for study at a Canadian university should be presented at least one semester prior to departure. Number of credits granted will be based on validated credentials presented to the Canadian Studies program. The student should register for CDN 370-380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

CDN 371 – 380 FOREIGN STUDY – CANADA 1-3 cr.
See CDN 370 for course description.

CDN 450 INTERNSHIP 1 - 6 cr.
Supervised participation in a business or government agency in Ontario or Quebec, or in a U.S. business or government agency with Canadian interests. Prerequisite: CDN 101 and 6 credits in Canadian Studies. May be taken for 1 through 6 credits.

CDN 490 SELECTED TOPICS IN CANADIAN STUDIES 3 cr.
An in-depth study of an issue or problem in Canadian culture, politics or business. Prerequisite: CDN 101 or permission of instructor.

CHEMISTRY

***CHM 101 INTRODUCTORY CHEMISTRY 4 cr.**
A treatment of fundamental principles for non-science majors. Does not meet degree requirements for chemistry or biology majors.

***CHM 102 ORGANIC AND BIOCHEMISTRY 4 cr.**
Deals with the principles of organic and biochemistry and their application to topics such as nutrition, consumer products, and the environment. In the laboratory students carry out various reactions, syntheses, analyses, and separations that exemplify the practice of organic and biochemistry. This course does not meet degree requirements for chemistry or biology majors. Prerequisite: CHM 101.

***CHM 103 CHEMISTRY AND THE ENVIRONMENT 4 cr.**
Examines the theory and practice of chemistry and related topics. Topics treated will be integrated and historically developed.

***CHM 105 HOW DRUGS WORK 3 cr.**
This lecture course outlines the mechanisms by which drugs exert their effects on the body. It begins with a discussion of molecular structures of drugs and their targets in the body, and then reviews physiological aspects of various disease states and the ways different drug classes modify the relevant physiology. This course is intended for General Education science credit and does not meet degree requirements for the chemistry major.

CHM 106 CHEMISTRY FOR THE ALLIED HEALTH SCIENCES 4 cr.
A one-semester survey course for non-science majors. General organic, biochemistry, and clinical chemistry are emphasized for students in health support programs. *CHM 110 SURVEY OF CHEMISTRY, INTRODUCTORY,

ORGANIC, AND BIOLOGICAL 4 cr.
A survey course for non-science majors. General, Organic, and Biological Chemistry are emphasized. DOES NOT meet degree requirements for chemistry and biology majors.

***CHM 111 GENERAL CHEMISTRY I 4 cr.**
For science majors. A study of the fundamental principles of chemistry from the standpoint of stoichiometry, gases, states of matter, solutions and equilibrium theory. Laboratory sessions stress the chemical principles discussed in the lecture.

***CHM 112 GENERAL CHEMISTRY II 4 cr.**
A continuation of 111: kinetics, thermodynamics, oxidation-reduction, atomic and molecular structure, bonding, and periodic relationships are studied. The laboratory work is an introduction to qualitative analysis and includes experiments designed to exemplify chemical principles. Prerequisite: CHM 111.

CHM 201 INTRODUCTION TO BIOCHEMISTRY 4 cr.
An introductory course in biochemistry with particular emphasis on human nutrition. Major topics are fuel management and the organization and control of metabolic pathways. The laboratory component includes separation, analysis, and properties of carbohydrates, lipids, amino acids, and enzymes. This course does not meet degree requirements for chemisty and biology majors. Prerequisite: CHM 102.

CHM 264 CHEMICAL METHODS IN FORENSIC SCIENCE 3 cr.
An advanced treatment of the chemical methods used in the investigation of criminal activities. The use and reliability of chemical tests, solubilities, and reactions as well as the chemistry of chromatographic, spectroscopic and instrumental analyses will be included. Prerequisites: CHM 110, SCI 104, SCI 107

CHM 301 ORGANIC CHEMISTRY I 4 cr.
Fundamentals of organic chemistry are presented. Modern theory, reaction mechanisms and stereochemistry are included along with nomenclature, preparation, reactions and properties of organic compounds. The laboratory stresses syntheses, chemical and physical properties and an introduction to instrumental techniques. The laboratory period includes one hour of lecture on theory and techniques of laboratory operations. Prerequisite: CHM 112.

CHM 302 ORGANIC CHEMISTRY II 4 cr.
A continuation of 301. The laboratory period includes one hour of lecture on theory and techniques of laboratory operations. Prerequisite: CHM 301.

CHM 311 QUANTITATIVE ANALYSIS 4 cr.
An introductory course in analytical chemistry emphasizing classical titrimetric and gravimetric methods and related theories. Prerequisite: CHM 112.

CHM 321 PHYSICAL CHEMISTRY I 4 cr.
An introduction to the methods and topics of physical chemistry. Topics include introduction to thermodynamics, equilibria, kinetics, atomic structure, and molecular spectroscopy. Prerequisite: CHM 112, 302, MA 231, PHY 188 and 211.

CHM 322 PHYSICAL CHEMISTRY II 4 cr.
A continuation of 321. Advanced study of the methods and topics covered in physical chemistry I. MA 233 is required. Prerequisite: CHM 321 and MA 232.

CHM 332 INSTRUMENTAL ANALYSIS 4 cr.
Deals with the principles and applications of instrumental methods in chemical and structural analysis. Studies include electroanalytical, spectrophotometric, and chromatographic techniques. Prerequisite: CHM 311.

CHM 341 BIOCHEMISTRY 4 cr.
A study of carbohydrates, lipids, proteins, enzymes, nucleic acids, vitamins, and hormones in terms of structure, function, and synthesis in living systems. The laboratory includes the isolation, identification, and chemical behavior of biochemically important molecules. Prerequisite: CHM 302 or permission of instructor.

CHM 352 RADIOCHEMISTRY 3 cr.
The study of radioisotope methodology. A laboratory oriented course familiarizing the student with radiation detection and applications in natural science problems. Prerequisite: junior or senior standing or permission of instructor.

CHM 410 SEMINAR 1 cr.
Deals with reports emphasizing chemical literature searches and/or current research. Prerequisite: upper division chemistry major.

CHM 420 QUALITATIVE ORGANIC CHEMISTRY 3 cr.
The identification of organic compounds by various classical and instrumental techniques. Two hours lecture and four hours lab per week. Prerequisite: CHM 302.

CHM 421 ADVANCED ORGANIC CHEMISTRY 3 cr.
An advanced lecture course designed to deepen and expand knowledge in the field. Topics such as reactions, mechanisms, reactive intermediates, photochemistry, kinetics,

stereochemistry, natural products, and spectroscopy may be stressed. Prerequisite: CHM 302 and 321.

CHM 431 ADVANCED INORGANIC CHEMISTRY 4 cr.
A presentation of atomic structure and periodic properties. In addition to other topics; valence bond, molecular orbital, crystal field and ligand field theories are treated. Laboratory sessions include one hour of lecture on theory and techniques in the preparation of representative compounds. Prerequisite: CHM 112 and 321.

CHM 432 STRUCTURAL CHEMISTRY 3 cr.
The symmetry and structural properties of molecular systems are utilized to determine their energy levels. The electronic and vibrational spectroscopic properties of these systems will be predicted also utilizing symmetry properties. These spectra-structure correlations will be made on organic and inorganic systems. Prerequisite: CHM 302 and 321.

CHM 490 PROBLEMS IN CHEMISTRY 1 - 3 cr.
Involves the student in study projects under the direct supervision of an instructor. Library and laboratory research in selected problems. Prerequisite: Permission of instructor. May be taken for one through three credits.

CHM 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

COMPUTER INFORMATION SCIENCE

CIS 101 COMPUTERS IN SOCIETY 3 cr.
Examines the impact of computers on modern society and how they are programmed and used. A variety of computer applications from the social sciences, humanities, natural sciences, and professions will be studied.

CIS 102 VISUAL BASIC PROGRAMMING 3 cr.
Introduces problem solving through the use of the programming language, Visual Basic. Enables students to write programs, which they can use for Windows development, scientific computing, spreadsheet design, and database work.

CIS 103 INTRODUCTION TO MICROCOMPUTERS 3 cr.
Introduces the Disk Operating System for microcomputers and the use of word processing, spreadsheet, and data base management software.

CIS 104 COMPUTER SCIENCE I 3 cr.
Introduces a high-level programming language as a means of studying problem solving, algorithms, and program structure. Includes data representation, repetition, selection, modular programming, debugging, and verification of programs.

CIS 203 SOFTWARE FOR BUSINESS APPLICATIONS 3 cr.
Advanced applications of spreadsheets, data base management systems, and graphics.

CIS 204 COMPUTER SCIENCE II 3 cr.
Emphasizes algorithms, structured programming and program analysis and design. Topics include files, records, recursion, string manipulation, graphics, and dynamic data structures. Prerequisite: CIS 104

CIS 206 BUSINESS PROGRAMMING CONCEPTS I 3 cr.
An introduction to analyzing and designing solutions to business-related problems using a business programming language. Prerequisite: CIS 104.

CIS 300 PROGRAMMING LANGUAGES 3 cr.
Comparative study of current programming languages. Examines the structure of languages and their use in problem solving. Prerequisite: CIS 204 and 330.

CIS 301 DATA STRUCTURES 3 cr.
Topics covered are data types, arrays, records, stacks, queues, linked lists, and trees. Other more advanced topics may include: file structures, recursion, heuristics, and hashing. Prerequisite: CIS 204.

CIS 303 COMPUTER NETWORKS 3 cr.
Introduction to the concepts of telecommunications, including transmission of voice, data, and images. Network principles will be introduced along with networking protocols. Local area networks and Internet will be the focus of the course. TCP/IP principles will be taught.

CIS 306 BUSINESS PROGRAMMING CONCEPTS II 3 cr.
A second course in business programming stressing file processing and advanced programming techniques. Prerequisite: CIS 206

CIS 308 OPERATIONS RESEARCH 3 cr.
The development and use of the techniques of operations research. Topics include linear programming, queuing theory, probabilistic inventory models and simulation. Prerequisite: CIS 203 or 204; MA 125 or 314; MA 129, 260 or 280; MA 170 or 231.

CIS 310 SYSTEMS ANALYSIS 3 cr.
An introduction to the concepts of systems analysis and design. Problem definition; data gathering, information analysis, presentation techniques, implementation planning, system controls, documentation. Prerequisite: BUS 130 or 230, and CIS 203 or 206.

CIS 314 (ACC) AUTOMATED ACCOUNTING SYSTEMS 3 cr.
Introduction to the development and implementation of an accounting information system. Prerequisite: ACC 315 and CIS 203 or permission of instructor.

CIS 320 COMPUTER ARCHITECTURE 3 cr.
Classification of computers. Defining hardware and software interfaces within a computer system. Special purpose architectures. Prerequisite: CIS 330

CIS 325 OPERATING SYSTEMS 3 cr.
Functions and characteristics of an operating system: concurrent processes, system nucleus, memory management, input and output, filing system, resource allocation and scheduling, system protection and reliability, and job control. Prerequisite: CIS 301 and 330.

CIS 330 COMPUTER ORGANIZATION 3 cr.
Overview of computer hardware, computer structure, machine representation of information, instruction codes, addressing, concepts of digital logic, microprogramming and assembly language programming. Prerequisite: CIS 104.

CIS 335 ASSEMBLY LANGUAGE PROGRAMMING 3 cr.
Explores assembly language programming including macro and subroutines. Emphasis will be on application and systems programming including machine organization for a general purpose computer. Prerequisite: CIS 204 and 330.

CIS 340 DATABASE SYSTEMS 3 cr.
First course in the theory and use of database management systems. Provides experience in the creation of an actual database system and the manipulation of the data in it. Prerequisite: CIS 301 and CIS 306.

CIS 361 ANALYTICAL METHODS OF INFORMATION SCIENCE 3 cr.
The study of key mathematical developments in computer science. Topics will include: sets, functions, relations, graphs, and digraphs. Other computer-specific topics may include: recursion, finite state machines, formal language theory, list processing support for management and decision functions. Prerequisite: CIS 204 and 330.

CIS 401 MANAGEMENT INFORMATION SYSTEMS 3 cr.
Advanced study of information processing systems which provide transactional processing for an organization and information and processing support for management and decision functions. Prerequisite: CIS 310.

CIS 420 SPECIAL PROBLEMS IN COMPUTER APPLICATIONS 1 - 3 cr.
Study of a specialized topic. Possible topics include Computer Aided Design, Data Base Systems, Telecommunications, Advanced Business Programming.

CIS 430 PROGRAM TRANSLATION 3 cr.
The theoretical aspects of program translation: Compilers, assemblers, and interpreters: Prerequisite: CIS 301 and 330.

CIS 440 ARTIFICIAL INTELLIGENCE 3 cr.
The application of computers to solve problems and to understand the principles of human intelligence including search, reasoning, and problem reduction. Applications to games, expert systems, natural language, learning, robotics, and computer vision. Prerequisite: CIS 204.

CIS 441 SWITCHING THEORY AND LOGIC DESIGN 3 cr.
An introduction to electronic circuits used in digital systems including computers, instruments, communications systems, and control systems. Topics include Boolean algebra, switching theory, logic design, and major digital circuit lines. Prerequisite: CIS 204 and 330.

CIS 450 ORGANIZATIONAL INTERNSHIP 1 - 12 cr.
Supervised and evaluated participation in the regular activities of a business, government, agency, or appropriate organization. In consultation with the supervising faculty member, the student is expected to prepare a comprehensive final report relating to the work accomplished during the field experience. May be taken for 1 through 12 credits No more than 6 credits count toward the major.

CIS 490 COMPUTER COMMUNICATIONS 3 cr.
First course in data and computer communications. Communication principles, computer requirements, networking, standards, and future trends and issues will be examined. Prerequisite: CIS 303 and CIS 330.

CIS 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

CRIMINAL JUSTICE

CJA 100 INTRODUCTION TO CRIMINAL JUSTICE 3 cr.
An introduction to the field of criminal justice, its major components, roles and functions. Emphasis is placed upon concepts of law and the historical descriptive analysis of the police, courts, and corrections.

CJA 200 SURVEY OF POLICING
Introduction to law enforcement problems and practices; it's legal, political, and historical framework. An analysis of police organizations and their relationship with other criminal justice and social agencies.

CJA 201 SURVEY OF CORRECTIONS 3 cr.
Origin and history of incarceration practices and procedures; associated organizational, criminological and phenological concepts; categories of inmates and laws affecting classification; special custody problems and treatment programs, staff organization; professional, administrative and custodial personnel training, recruitment and promotions; interagency relationships and cooperation; release programs, furloughs, work-release, and final discharge.

CJA 261 COMMUNITY POLICING 3 cr.
Basic definitions; rule of law; individual and societal aspects of police-community relations; police and minority groups; social change and law enforcement; principles of programming in police-community relations; police discretion; police role, police problems. Prerequisites: CJA 100 and CJA 200.

CJA 262 INVESTIGATION AND INTERROGATION 3 cr.
An introduction to the fundamentals of criminal investigation, rules of evidence, sources of information, observations, descriptions, and identification, including collection, preservation, and processing of physical evidence, records, reports, statements, case preparation, surveillance and undercover techniques, modus operandi information.

CJA 267 COMMUNITY AND INSTITUTIONAL CORRECTIONS 3 cr.
An in-depth examination of the American correctional system, covering probation, intermediate punishments, corrections, parole, community correction, as well as related issues such as clemency, boot camps, sentencing, the death penalty and challenges facing corrections. Attention will be paid to the Pennsylvania correctional system, its agencies and national and state current events which dictate how public policy decision-making affects the American correctional process.

CJA 276 CRIMINOLOGY: A MULTI DISCIPLINARY APPROACH 3 cr.
Acquaint students with the nature and forms of crime. Major areas of concern are the functions of law, the scientific study of crime, criminological topologies, classical and positive definitions of crime, comparative criminology, and the problem of punishment.

CJA 301 INDUSTRIAL SECURITY 3 cr.
Examines basic industrial security concepts, principles, and methodologies. Provides knowledge of procedures and programs currently applied in industrial security management.

CJA 324 JUDICIAL CRIMINAL PROCESS 3 cr.
An examination of the role and function of the judiciary in the criminal justice decision-making process. It includes a survey of America's court system and an in-depth analysis of its major components. Emphasis will also be placed on important interactions within the judicial system and its major interrelationships with other criminal justice agencies.

CJA 336 CRIMINALISTICS 3 cr.
Examines the phase of the criminal investigation process concerned with physical evidence. Major emphasis will be placed upon legal and technical consideration in the recognition, collection, and preservation of various categories of physical evidence and the process through which it is transmitted to the crime laboratory. Attention will also be given to knowledge requirements of the evidence technician in terms of the capabilities and techniques of the crime laboratory. Prerequisite: CJA 100 AND CJA 200.

CJA 354 CRIMINAL LAW 3 cr.
Principles, theories and doctrines of the law of crimes with a unified study of legal defenses; elements and proof in crimes of frequent concern; importance of criminal law at the enforcement level is considered from crime prevention to the courtroom; case analysis.

CJA 355 EVIDENCE and CRIMINAL PROCEDURE 3 cr.
Rules of evidence of particular import at the operational level of law enforcement; types of evidence, principles of admissibility; the attendance and production of witnesses, their competency and impeachment; arrest, search and seizure; use of force and Supreme Court decisions affecting this area of criminal justice administration.

CJA 357 CORRECTIONAL STRATEGIES 3 cr.
Offender classification; special offender groups, treatment, custody, recidivism, and strategies designed to change offender conduct.

CJA 359 JUVENILE JUSTICE 3 cr.
Structure and format of the juvenile justice system-police, courts and corrections; analysis and description of the organizational structure of each of the subsystems of the juvenile justice process; introduction to juvenile justice literature and research findings.

CJA 395 DELINQUENCY AND THE CRIMINAL JUSTICE SYSTEM 3 cr.
Exposes students to the full impact of the delinquency problem. Theories of delinquency causation, prevention, and rehabilitation will be critically examined.

CJA 401 ADVANCED INDUSTRIAL SECURITY 3 cr.
Advanced course of industrial and government security concepts, principles, and methodologies; knowledge of relationships of industrial security procedures in business organizations to the Department of Defense National Security Program. Prerequisite: CJA 301.

CJA 405 RESEARCH METHODS IN CRIMINAL JUSTICE 3 cr.
An introduction to research methodology with particular emphasis placed on criminal justice issues. Examines research theory, its major components, and its application to various criminal justice agencies including the police, courts, correctional institutions, etc.

CJA 450 INTERNSHIP IN CRIMINAL JUSTICE ADMINISTRATION 1 - 12 cr.
Educational and work experience in an actual criminal agency-law enforcement, courts, corrections or industrial security; applicable agency research project; periodic conference with criminal justice agency personnel and faculty advisor. May be taken for one through twelve credits.

CJA 453 POLICE ORGANIZATION AND ADMINISTRATION 3 cr.
Organizational theory, budgeting, personnel management planning, information management theory, civil service, unions, management prerogatives, supervision, executive development, manpower distribution schemes, and policy development and execution as applied in both small and large law enforcement agencies. Prerequisites: CJA 100 and CJA 200.

CJA 490 SENIOR SEMINAR
This is a capstone course designed to: 1) help seniors integrate the knowledge gained from their other criminal justice courses; 2) assist them in developing analytical thinking skills through focusing on several selected topics; and 3) to instill in them the confidence that they have acquired a core body of knowledge that will assist them when they enter a criminal justice agency or graduate school.

CJA 496 SELECTED TOPICS 3 cr.
An intense analysis of a selected topic in law enforcement, adjudication, and correctional fields. Intended for advanced undergraduates, graduates, and in service professionals. May be taken for a total of nine credits.

CJA 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

COMMUNICATION

COM 101 ORAL COMMUNICATION 3 cr.
Objectives are to help the student to formulate his/her own ideas coherently, evaluate factual material, and use sound reasoning patterns in his/her preparation and attempts to communicate concepts orally; to determine and select the most effective means of expression in formal and informal speaking situations. Required of all Mansfield students.

COM 200 ORAL INTERPRETATION 3 cr.
An introductory course in presenting oral readings of various literary genres. It involves written analysis and practical experience in presenting selections, and the understanding and appreciation of oral interpretation as the communication of the readers impression of the authors intent as an artistic representation of his/her world in a piece of literature. Prerequisite: COM 101 or permission of instructor.

COM 201 INTRODUCTION TO MASS MEDIA 3 cr.
Studies the application of modern mass media, its origin, history, theory, principles, and philosophy to the areas of entertainment, instruction, and audience persuasion. Practical experience in the basic media is provided.

COM 203 VOICE AND ARTICULATION 3 cr.
A study of basic physiology and phonetic analysis. It begins with transcription and evaluation of the student's speech. Subsequent attention is given to the correction of individual faults in voice and articulation habits in order to achieve clear and effective communication. Prerequisite: COM 101 or permission of instructor.

COM 206 FORENSICS 1 cr.
Designed for the student interested in intercollegiate forensics. Students are involved in the theory and practice of competitive speaking in debating, extemporaneous speaking, original oratory, oral interpretation, and other forensic events. Prerequisite: permission of instructor. May be taken for a total of eight credits.

COM 210 INTRODUCTION TO PUBLIC RELATIONS 3 cr.
Study of the history, principles, and practice of public relations in business, education, government, and other organizations.

COM 220 AMERICAN BROADCASTING HISTORY 3 cr.
An introduction to the American broadcasting system which examines the history of the medium and relates it to current issues in electronic media. The course utilizes historical programming examples, examines broadcast and cable technology, and develops student awareness of the importance of electronic media in our society. Prerequisite: COM 201.

COM 230 WRITING FOR BROADCASTING MEDIA 3 cr.
A basic course in the writing techniques used in American radio and television. The course focuses on the development of original ideas for a range of commercial and promotional needs, including an original television series. Prerequisite: JN 100

COM 270 AUDIO PRODUCTION 3 cr.
An introductory course in the theory and operation of audio equipment and the creation of various audio presentations. Students write, produce, and perform in a series of individual and group projects.

COM 301 TELEVISION PROGRAM DESIGN I 3 cr.
Study of the theoretical and practical aspects of television program conceptualization, scripting, production, presentation, and evaluation. Prerequisite: COM 201.

COM 303 TELEVISION AND RADIO ANNOUNCING 3 cr.
In-depth training in effective communication skills employed by broadcasters. Prerequisite: COM 201, 203, 215 301.

COM 304 TELEVISION PROGRAM DESIGN II 3 cr.
Study of the theoretical and practical aspects of television program conceptualization, scripting, production, editing, presentation, and evaluation. Emphasis is on the application of these elements in a variety of program situations. Prerequisite: COM 201 and 301.

COM 310 ELECTRONIC MEDIA MANAGEMENT 3 cr.
Presents current practices, problems, and issues of electronic media management. Lectures, readings, and class presentations by industry representatives provides an introduction to the business aspects of electronic media. Prerequisite: COM 201 and 220.

COM 320 PUBLIC RELATIONS WRITING TECHNIQUES 3 cr.
An advanced level investigation of the theory and practice of public relations. Special emphasis is placed on public relations writing for clients, media, and other audiences. Prerequisites: COM 210, JN 100.

COM 321 VISUAL PRESENTATIONS 3 cr.
This hand-on workshop leads students through a series of step-by-step demonstrations and practice sessions while at a computer keyboard so they can design flyers, brochures, and presentation materials. Prerequisites: COM 210 and COM 320.

COM 325 INTERPERSONAL COMMUNICATION 3 cr.
Explores the dynamics of communication transactions between individuals who share some type of relationship. Course focuses on the conceptual understanding of that process and its practical application to life experiences.

COM 330 PARLIAMENTARY PROCEDURE 3 cr.
Examines history, philosophy, and practice of parliamentary procedure as it applies to our democratic society. Emphasis is on the development of procedures and includes practice in the use of the theories.

COM 334 GENDER AND COMMUNICATION 3cr.
This course is designed to introduce students to the concepts of gender and how those concepts relate to communication. The course introduces students to important gender communication concepts such as gendered verbal and non-verbal communications, the social shaping of gender, gendered power and violence, sexual harassment, and gendered communication in educational, organizational, media, and relationship settings.

COM 336 BUSINESS AND PROFESSIONAL COMMUNICATION 3 cr.
Exploration of dyadic relationship behaviors designed to impact communication skills in the business environment. Sample topics include: the dyadic process, types of interviews, communication and research in a business environment, business correspondence, communicating with the business staff, legal issues, performance appraisals, organizational discipline, career planning, business etiquette and new company orientation. Prerequisites: COM 101, ENG 112, or BUS 130. Must have 50 credits completed to enroll.

COM 340 PROFESSIONAL ISSUES IN COMMUNICATION 3 cr.
Research, prepare, present, and evaluate contemporary issues in the communication field. Investigate professional communication associations and career paths in respective emphases. Prerequisite: COM 101, 201, and JN 100.

COM 350 BROADCAST WORKSHOP 3 cr.
Emphasizes the production of programs designed for public reception. Students will work under professional production team discipline in the areas of format development, advanced writing production, and post production. May be repeated for 6 credits. Prerequisites: COM 201, 301, and 304.

COM 360 ORGANIZATIONAL COMMUNICATION 3 cr.
Examines the process of communication within organizations. Investigates formal and informal communication networks to gain a greater understanding of the vital role that they play within organizational structures and operations. Prerequisite: COM 101.

COM 370 STORYTELLING IN PERFORMANCE 3 cr.
This course will involve the study of the history and theories of storytelling. During the semester, each student will have practice in the creation, development, and performance and criticism of at least three types of stories. Graduate students will be expected to do a term paper and more coaching.

COM 400 COMMUNICATION THEORY 3 cr.
Study of the major concepts, principles, models, and theories of human communication including, General Systems Theory, General Semantics, role behavior, the diffusion of innovation, the role of language in communication, linguistics, and the psychology of communication. These provide a framework for an investigation of the process of communication on the intra personal, interpersonal, small group, one-to-many, and mass media levels.

COM 401 PERSUASION 3 cr.
A study of the psychology of persuasion and its use in a free society, and propaganda and its effect on our daily living. Prepares the student to evaluate persuasive messages, to use persuasion effectively, and to appreciate the ethics of persuasion.

COM 403 SPEECH WRITING 3 cr.
Practical experience in the techniques of speech writing for speakers and public relations practitioners. Emphasis is placed on actual speech writing situations.

COM 404 TELEVISION REPORTING 3 cr.
Focus is on concepts and practice of broadcasting techniques as applied to live and taped television performance. Prerequisite: COM 203, 303 and 304 or permission of instructor.

COM 410 (THT) INTERNSHIP 6 - 15 cr.
Supervised and evaluated participation in varied settings provides practical application of theoretical principles. May be taken for six through fifteen credits.

COM 415 CONTEMPORARY AMERICAN HUMOR 3 cr.
A critical study of contemporary humor employing a variety of communication theories of analysis and criticism. Areas such as television, film, writing, and stand-up will be examined. Prerequisite: COM 101.

COM 420 PUBLIC RELATIONS WORKSHOP 3 cr.
Practical study of public relations. Each student is involved in planning and directing a campaign proposal for a non-profit organization and implementing at least one special event. Prerequisites: COM 210, JN 100, COM 320, or permission of instructor.

COM 425 PUBLIC COMMUNICATION 3 cr.
Advanced study of the construction, preparation and delivery of public performance. Designed to familiarize the student with the research, audience analysis and rhetorical criticism skills necessary for the presentation and evaluation of professional speeches. Prerequisites are COM 101 or permission of the instructor.

COM 435 INTERNATIONAL BROADCASTING 3 cr.
Designed to familiarize students with international broadcasting systems and global communication issues. Lectures, research projects, and classroom presentation of international radio and television programming examples are used to broaden perspectives and international understanding. Prerequisite: COM 201 and 220.

COM 440 COMMUNICATION LAW 3 cr.
Provides a background in communication law as it affects the conduct of the print and electronic media industries. Will study landmark cases and investigate legal industry, and ethical issues which confront communication professionals. Prerequisite: COM 201.

COM 450 (THT) SPECIAL PROJECTS 1 - 3 cr.
A project initiated by the student to increase his/her knowledge in an advanced area not offered as a regular class. Intensive study of a subject area under the guidance of a faculty member who has special expertise in that subject. Prerequisite: permission of instructor. May be taken for 1 through 3 credits, but not to exceed 9 credits total.

COM 485 SMALL GROUP COMMUNICATION
Learning how to work effectively in groups. The dynamics of cooperative communication situations and skills associated with interpersonal relations and group goal achievement. Emphasis on presentational speaking, agenda management, problem solving, decision making, conflict and cohesion, project management, leadership, participation theory, listening, verbal and nonverbal choices, planning and conducting meetings.

COM 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

DIETETICS

DIT 101 PERSONAL NUTRITION 3 cr.
Examines how good nutrition improves health and risk factors for nutrition related diseases. This is an excellent course for people who wish to improve their eating habits. This course DOES NOT fulfill requirements for the Nursing program.

DIT 211 INTRODUCTION TO NUTRITION 3 cr.
Introduces the science of nutrition, the nutrient needs of the body, and the foods that meet these needs.

DIT 220 NUTRITION AND EXERCISE 3 cr.
An in-depth look into nutrition and exercise and how they work together to prevent chronic disease.

DIT 300 CULTURAL NUTRITION AND FOOD 3 cr
A study of the nutrient needs and food habits of individuals from various countries and ethnic backgrounds.

DIT 305 PRINCIPLES OF FOOD SCIENCE 3 cr.
Applies physical and chemical principles as related to the selection, preparation, and storage of food.

DIT 306 MEAL MANAGEMENT 3 cr.
A study of the principles of planning, preparation, and service of meals. Discussion of food safety, sanitation, marketing, menu planning and government regulations are included. Prerequisite: Dit 211, 305 and permission of instructor.

DIT 314 NUTRITION THROUGHOUT THE LIFE CYCLE 3 cr.
Nutritional requirements and assessment of humans from conception to old age, including the study of nutrition as it relates to health and disease common to each phase of the life cycle. The impact of societal and environmental factors on nutrient intake will be examined. Prerequisite: DIT 211 or permission of instructor.

DIT 315 FOOD SERVICE ORGANIZATION AND MANAGEMENT 3 cr.
Management functions in the food service industry. Methods, procedures, and techniques in dealing with personnel. Prerequisite: DIT 305 and 306 or permission of the instructor.

DIT 316 COMMUNITY NUTRITION 3 cr.
Addresses issues of nutrition services in the community including needs, assessment, implementation, and program evaluation. Provides opportunity for student to become familiar with WIC, school lunch, congregated meals, cooperative extension, etc. Prerequisite: DIT 211 or permission of instructor.

DIT 325 NUTRITION COUNSELING AND EDUCATION 3 cr.
Counseling theory and techniques, interviewing techniques, and group communication will be discussed. The student will have the opportunity to practice counseling individuals on nutrition. Health promotion and disease prevention will be highlighted throughout this course. Prerequisites: PSY 101, DIT 211, 314 & 316.

DIT 330 SPORTS NUTRITION 3 cr.
Scientific basis for sports nutrition. Basic nutrition concepts, energy expenditure during various types of exercise, diet during training, meal recommendations, use of supplements and erogenic aids, special recommendations for groups of athletes. An excellent course for athletes, coaches, and active people. Prerequisite: DIT 211.

DIT 401 MEDICAL NUTRITION THERAPY I 3 cr.
The basic methods of dietary modification, including food exchange systems, nutrition assessment of patients, charting techniques, standards of professional practice; medical nutrition therapy for patients with injury, surgery, recovery, obesity and eating disorders, diabetes, and allergies. Prerequisites: DIT 211, 305, CHM 101, 102 or permission of instructor.

DIT 402 MEDICAL NUTRITION THERAPY II 3 cr.
Medical nutirtion therapy including the following conditions: nutrition support, digestive tract diseases, anemia, heart disease, pulmonary disease, renal disease, neoplastic disease, HIV positive and AIDS, nervous system diseases, and metabolic disorders. Prerequisites: DIT 211, 305, 402, CHM 101, 102 or permission of instructor.

DIT 411 QUANTITY FOOD PRODUCTION 4 cr.
Quantity food production, menu planning, purchasing, receiving, and sanitation and safety techniques in food service. Laboratory experience in quantity food production. Prerequisite: DIT 305 and 306 or permission of instructor.

DIT 417 ADVANCED NUTRITION 3 cr.
Chemistry of nutrients, metabolism, and normal nutritional requirements throughout the human life cycle. Prerequisite: eight credits in Chemistry, three credits in foods and DIT 211.

DIT 419 DIETETICS PRACTICUM 3 cr.
Students are employed or volunteer in a hospital or food service operation. A written description and an oral presentation of their experience is required. Equivalent of six weeks employment. Prerequisite: DIT 401, 402 and 411 or permission of instructor, overall 2.5 QPA and 3.0 QPA in the major, 21 credits with DIT prefix, and senior status.

DIT 420 NUTRITION RESEARCH SEMINAR 3 cr.
Contemporary issues in nutrition and dietetics will be discussed. The student will learn research methodology and how to interpret current research in the field. Prerequisite: completion of at least 75 credit hours with 12 credit hours in nutirtion and dietetics or permission of instructor.

DIT 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

ECONOMICS

***ECO 101 PRINCIPLES OF MACROECONOMICS 3 cr.**
An introduction to aggregate economics with emphasis on interdependence of sectors of an economy, aggregate concepts, determination of national income and fiscal and monetary policy for stabilization.

***ECO 102 PRINCIPLES OF MICROECONOMICS 3 cr.**
Examines the mechanism of the free enterprise system; pricing, production, and employment under various market conditions; functional distribution of income; selected topics in modern theory of general equilibrium and welfare economics.

***ECO 204 HISTORY OF ECONOMIC THOUGHT 3 cr.**
A study of economic ideas from the eighteenth century to the present. A brief review of physiocracy and mercantilism followed by a closer survey of classical liberalism, pre-Marxist and utopian socialism. Marxism, neoclassicism, institutionalism, and other contemporary developments. Prerequisite: ECO 101 and 102 or permission of instructor.

***ECO 205 CONTEMPORARY ECONOMIC PROBLEMS 3 cr.**
Examination of some of our crucial economic problems: unemployment, inflation, poverty; also some of the minor issues: right-to-work, national debt, and of several international concerns, e.g., the Common Market. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 301 INTERMEDIATE MACROECONOMIC THEORY 3 cr.
Develops models of the macroeconomy and analyzes the level and distribution of income, theories of unemployment, theories of consumption, theories of the public economy, theories of investment, the role of money, theories of crisis, theories of infla-

tion, and theories of growth from alternative paradigms. A macroscopic view of the economy and the ability to analyze and forecast business conditions are developed. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 302 INTERMEDIATE MICROECONOMIC THEORY 3 cr.
Introduction to the models and methods of modern microeconomic theory, concentrating on individual and firm decision making and on industry equilibrium; a brief treatment of general equilibrium theory and welfare analysis. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 305 ECONOMETRICS 3 cr.
The orientation of this course is toward the analysis and interpretation of economic data. This course will examine the general linear regression model and its application to economics, including violations of the classical model assumptions.

ECO 310 BUSINESS AND ECONOMIC FORECASTING 3 cr.
This course is an introduction to the various methods economists and business managers use to forecast economic variables. Topics covered include regression techniques, exponential smoothing, decomposition of time series, moving averages, ARIMA models, and VAR models. Prerequisites: ECO 101, 102, and MA 125.

ECO 311 MONEY AND BANKING 3 cr.
An inquiry into the monetary system of the U.S. Brief examination of historical development; the functioning of monetary policy is considered. Emphasis is on the public/private nature of our banking system. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 312 FINANCIAL MARKETS AND INSTITUTIONS 3 cr.
This course is an introduction to the money and capital markets of the united States, with an emphasis on the determination of financial asset value and the management of interest rate risk. Topics include the determination of financial asset value and the management of interest rate risk. Topics include the determination of interest rates, valuation of financial claims, financial markets, futures and options, managing interest rate risk, managing credit risk, asset management and pricing, liability management, and government regulation.

ECO 315 PUBLIC FINANCE 3 cr.
Investigates theories of taxation; normative and positive theories of the public economy; various taxes; tax incidence and the distribution of income and wealth; taxes and microeconomic behavior; and the distribution of expenditure benefits. Provides students with an understanding of the functions of taxation and public expenditures in the process of accumulation and legitimization. Prerequisite: ECO 101 and 102.

ECO 321 COMPARATIVE ECONOMIC SYSTEMS 3 cr.
Comparative analysis of different ways that countries solve their fundamental economic problems. Covers all systems from Capitalism to Communism. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 325 DEMOGRAPHIC ANALYSIS 3 cr.
An introduction to aggregate economics with emphasis on interdependence of sectors of an economy, aggregate concepts, determination of national income and fiscal and monetary policy for stabilization.

ECO 333 INTERNATIONAL ECONOMICS 3 cr.
A study of the economics aspects of international relations with particular emphasis on the economic basis for trade, international monetary problems, commercial policy, and international agencies and agreements. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 401 LABOR ECONOMICS 3 cr.
Equal consideration is given to the market and institutional factors of labor management relations. The role of government especially as defined in major legislation is examined. Historical development of trade unions serves as an introduction. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 405 MATHEMATICAL ECONOMICS 3 cr.
An introduction to using mathematical tools in economic analysis. Prerequisite: ECO 101, 102 and MA 129 or permission of instructor.

ECO 420 INDUSTRIAL ORGANIZATION 3 cr.
Examines the market structure, conduct, and performance in the unregulated sector of the American economy. Characteristics and economic problems of regulated public utilities is also studied, as well as, public policies related to promotion or restriction of competition. Prerequisite: ECO 101 and 102 or permission of instructor.

ECO 450 INTERNSHIP 3 - 12 cr.
Designed to allow the student the opportunity to learn in a professional setting. It must involve the application of economic theory and provide an opportunity for work involving the application of academic skills. Consult an academic advisor for departmental internship policies. May be taken for 3 through 12 credits.

ECO 485 MANAGERIAL ECONOMICS 3 cr.
A rigorous development and application of microeconomic theory with an emphasis on the tools and techniques most useful to managers in a decision making environment. Topics include demand analysis, production and cost analysis, market structure, pricing strategies, risk analysis, estimation and forecasting. Prerequisite: MA 125 and 170 or permission of instructor.

ECO 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

EDUCATION

ED 100 SCHOOLS AND SOCIETY 3 cr.
An exploration and examination of the critical issues/concerns facing public policy in education and demonstrating knowledge about education in today's society.

ED 102 INTRODUCTION TO EDUCATION 3 cr.
An introduction to professional careers in elementary, secondary and special education. Students examine teaching responsibilities, certification requirements, career prospects, and attributes of successful teachers. Topics include historical and social foundations of education, schools in a multicultural society, political influences on education, observations in schools, frameworks for teaching, and beginning a professional portfolio.

ED 202 SECONDARY PRE-PROFESSIONAL EXPERIENCE 2 cr.
Introduction to observation and participation in the secondary schools, including a field experience component. Students will develop a greater understanding of the secondary school as a setting for teaching and learning. Prerequisite: ED 102.

ED 205 (PSY) EDUCATIONAL PSYCHOLOGY 3 cr.
A study of the application of learning theory principles to the educational and institutional setting. Provides demonstrations and field experiences to enhance the applicability of these principles. Prerequisite: PSY 101.

ED 245 TUTORING FOR LITERACY 3 cr.
Students will learn tutoring techniques and will learn how to recruit, train, and evaluate tutors in basic, higher and adult educational programs. Students will learn principles of andragogy as contrasted to pedagogy, lifelong learning, and volunteerism. Students will participate in a minimum of 40 hours of community service tutoring.

ED 260 ASSESSMENT IN EDUCATION 3 cr.
A basic testing and measurements course. Students study the domains of educational objectives, evaluation theory, the application of basic statistics to test data, and principles for selecting and interpreting standardized tests. Students will develop a test related to their area of teaching specialization.

ED 302 INSTRUCTIONAL TECHNOLOGY 2 cr.
An introduction to both traditional and contemporary types of instructional media including micro-computers, interactive tele-teaching, and telecommunications. Students demonstrate skill in the use, production, and operation of selected areas of this technology.

ED 306 TUTORING IN THE EDUCATIONAL SYSTEM 3 cr.
Offers training in tutoring techniques for various subjects. Provides information in training, utilizing, and evaluating tutors in elementary and secondary classroom. Students participate in supervised tutoring sessions with college students.

ED 310 CONTENT AREA READING AND WRITING 3 cr.
Designed to provide instructional experiences that enable secondary content teaching candidates and special field teacher candidates to develop selected basic knowledge, skills, and attitudes regarding the reading learning process.

ED 312 TEACHING SECONDARY ENGLISH LANGUAGE ARTS 3 cr.
Designed to prepare the student for the teaching of middle school/junior/senior high school English communication arts. In investigating the present resources of the school, the needs of the learners, and the potential for development in the field of English language study, the student will be preparing to function in either a traditional or experience-based school curriculum.

ED 313 TEACHING SECONDARY SCIENCE 3 cr.
Designed to provide the framework on which prospective science teachers can build their teaching activities. Areas of study will include goals and objectives of secondary science education; a study of principles of learning, strategies and techniques, and the role of instructional materials in the classroom. Experience will include observation and participation.

ED 314 TEACHING SECONDARY MATHEMATICS 3 cr.
Examines methods of teaching secondary school mathematics in the "Information Age", the mathematics education reform movement, curricular changes and the standards for school mathematics, instructional methodology, use of materials, and development of skills required of secondary school mathematics teachers.

ED 315 TEACHING SECONDARY SOCIAL STUDIES 3 cr.
This course provides a thorough background in the methods and materials for the teaching of social studies. Emphasis is placed on self-directed inquiry that focuses on identifying issues, problems, and contexts and on methods to incorporate this knowledge and these skills into classroom instruction. Students will have an opportunity to plan and implement practice strategies in the classroom.

ED 317 TEACHING SECONDARY FOREIGN LANGUAGES 3 cr.
Emphasizes methods of teaching language skills, lesson organization, language

resources, multi media applications including computer technology and the history of foreign language teaching.

ED 320 OBSERVATION AND PARTICIPATION - SECONDARY 3 cr.
Provides secondary education students with opportunities to observe and participate in secondary schools prior to student teaching. Topics addressed include effective teaching and classroom discussion techniques, lesson and unit planning, and classroom management and discipline. Students receive supervision and feedback on their classroom performance from classroom teachers and the college instructor.

ED 400 STUDENT TEACHING 12 cr.
(By arrangement) Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor.

ED 401 HISTORY AND PHILOSOPHY OF EDUCATION 3 cr.
Foundations course in the study of professional foundations of education and the relationship that exists between the school and the society it serves. The course reviews cultural, historical, and educational milestones from the Greeks to modern time.

ED 402 CONTEMPORARY ISSUES IN EDUCATION 2 cr.
A course preparing students for entering the teaching profession, first as a student teacher, and second as a beginning teacher. Emphasis is placed on issues and trends in education.

ED 410 HISTORICAL AND CURRENT ISSUES IN EDUCATION 3 cr.
Foundations of the historical and philosophical bases of education in a democracy and the relationship that exists between the school and the society it serves. Reviews cultural, historical, and educational milestones from the Greeks to modern times, with specific focus on contemporary education. A major facet of the study will be how education can effect societal change with reference to futurists' predictions of demands and opportunities for education in the twenty-first century. Prerequisite: junior or senior standing.

ED 460 PROFESSIONAL SEMINAR 2 cr.
Designed to develop and refine professional competencies prior to accepting a teaching position. Topics include current issues; school organization, administration, and law; techniques for seeking a professional position; teacher certification issues; collective bargaining and unions; philosophies of teaching; seeking a professional position; and beginning a teaching career. Prerequisite: Senior standing in teacher education; taken during student teaching semester.

ED 480 COMPUTERS IN EDUCATION 3 cr.
Designed to instruct undergraduate education majors in the various uses of computers in the schools.

ED 482 COMPUTERS IN EDUCATION - METHODS AND MATERIALS 3 cr.
Designed to instruct undergraduate education majors in the design and organization of computer learning environments; and in the selection, utilization, and evaluation of courseware.

ED 485 TEACHING OF ADULTS 3 cr.
Designed to identify characteristics and needs of various target groups choosing or needing to be involved in educational offerings for adults. Explores lifelong learning as a phenomenon relative to many societal influences, and develop programs, teaching modules, and units which serve both society and the individual.

ED 488 DISTANCE LEARNING AND TELETEACHING 3 cr.
A survey and analysis of the distance learning movement in the United States with an emphasis on audio graphics tele-teaching.

ED 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

ELEMENTARY EDUCATION

ELE 150 INTRODUCTION TO EARLY CHILDHOOD EDUCATION 3 cr.
An introduction to the teaching of young children, birth through age eight; current issues and practices; historic and future trends; and assessment of one's strengths and interests related to the career opportunities in early childhood education. Prerequisite: ED 102

ELE 202 PRE-PROFESSIONAL EXPERIENCE 2 cr.
Provides sophomores with clinical experiences in elementary education which include identification and analysis of current educational practices, brief episodes of exploratory teaching, investigations of career possibilities and their requirements, an orientation to the Education Department and informal advisement seminars.

ELE 220 CHILD DEVELOPMENT 3 cr.
Examines development from conception and infancy, through preschool and middle school, and ends with adolescence. Major developmental theories that focus on the interaction of heredity and the environment are the key components.

ELE 263 PRESCHOOL CURRICULUM AGES 3 - 5 3 cr.
Addresses aspects of a quality preschool program. Topics this course examines include: theoretical foundations of teaching and learning, children ages 3 - 5; preschool curriculum models; key components of a preschool program; an integrated curriculum to foster children's development; and adapting curricula for children in inclusive preschool settings. This course will require observations and participation in a preschool setting.

ELE 301 OBSERVATION AND PARTICIPATION - ELEMENTARY 3 cr.
Provides juniors with the following observation, participation and professional guidance experiences: observation of an elementary classroom; orientation to policies and practices of an elementary school; opportunity to observe the in-service teacher in the performance of his/her duties; introduction to administrative duties of an elementary classroom; the privilege of working with individual children, small groups of children and an entire classroom under supervision; and the opportunity to receive feedback on performance from the cooperating teacher and the college supervisor.

ELE 360 CHILDREN'S LITERATURE 3 cr.
Uses of children's literature in the preschool and elementary school curriculum; promoting interest in children's books; social themes and issues reflected in children's literature.

ELE 362 EMERGING LITERACY 3 cr.
Theoretical foundations and the components of a developmentally appropriate literacy program for children ages 4-8 are introduced. Topics include: teaching and assessment strategies, instructional resources, classroom management, grouping for instruction, and involving parents.

ELE 383 TEACHING ELEMENTARY READING AND LITERATURE I 3 cr.
Theoretical bases of the reading process; components of reading skill; major approaches to instruction; methods and materials for teaching elementary reading are examined.

ELE 384 TEACHING ELEMENTARY MATH 3 cr.
Methods of teaching mathematics in the "Information Age", the reform movements curricular changes and emphasis, instructional methodology and use of materials, and development of mathematics skills required of elementary school teachers are examined.

ELE 386 TEACHING ELEMENTARY SOCIAL STUDIES 3 cr.
Principles, problems, materials, and techniques for the teaching of elementary social studies. In-school experience provided.

ELE 387 TEACHING ELEMENTARY SCIENCE 3 cr.
Principles, problems, materials, and techniques for the teaching of science in the elementary schools.

ELE 391 BEHAVIORAL, SOCIAL, AND EMOTIONAL ISSUES 3 cr.
Addresses "at-risk" factors in children and the classroom techniques that teachers may use to address students' behavioral, social, and emotional needs. Topics examined in the course include classroom management and discipline, students' social relationships, students' emotional well being, and gender issues in teaching. Teachers will learn to identify students who are victims of physical abuse and to make appropriate professional referrals.

ELE 395 CREATIVE EXPERIENCES IN ELEMENTARY TEACHING 3 cr.
Examines the nature of creativity and varied uses of creativity and the arts in elementary lesson planning, teaching, and curriculum development; areas of study include art, music, drama, storytelling, movement and dance, poetry, and children's literature; emphasis is placed upon the uses of creativity and the arts by classroom teachers to enhance their teaching across the curriculum.

ELE 400 STUDENT TEACHING 12 cr.
(By arrangement) Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor.

ELE 402 SELECTED TOPICS IN ELEMENTARY EDUCATION 1 - 3 cr.
Designed to let students carry out in-depth studies in elementary teaching techniques. Includes lectures, seminar periods, and resource persons. Emphasis on student leadership, participation, and reading and discussion of educational literature. May be taken for one through three credits.

ELE 403 TEACHING ELEMENTARY LANGUAGE ARTS 3 cr.
Designed as a workshop for undergraduate students who have completed ELE 383 and for in-service classroom teachers. Emphasis is on investigating techniques used by elementary teachers to improve communication skills for children.

ELE 405 EARLY SCHOOL CURRICULUM AGES 6-8 3 cr.
Addresses aspects of a quality early school program (K-3rd grade). Topics examined in this course include: theoretical foundations of teaching and learning with children, age 6-8; perspectives that inform curriculum planning; components of an early grade program; an integrated curriculum; and adapting curricula for children in inclusive settings. Students will team-teach with classmates in an early grade in a local school. Prerequisite: ELE 150 and 263. Dual listed with 505

ELE 412 READING/WRITING IN BRITISH SCHOOLS 3 cr.
An examination of the integrated language arts curriculum employed in British education. This companion course to "Introduction to British Education" includes first-hand experiences observing and participating techniques used by British schools.

ELE 425 TEACHING ELEMENTARY READING AND LITERATURE II 3 cr.
Tests and techniques to prevent, detect, and correct reading difficulties; special methods and materials for problem readers. Prerequisite: ELE 383 or permission of instructor.

ELE 460 PROFESSIONAL SEMINAR 2 cr.
Designed to develop and refine professional competencies prior to accepting a teaching position. Topics include current issues; school organization, administration, and law; techniques for seeking a professional position; teacher certification issues; collective bargaining and unions; philosophies of teaching; seeking a professional position; and beginning a teaching career. Prerequisite: Senior standing in teacher education; taken during student teaching semester.

ENGLISH

ENG 045 CONVERSATIONAL AND WRITTEN ENGLISH FOR INTERNATIONAL STUDENTS 3 cr.
Designed to raise skills of international students in conversation and elementary English grammar so they are competent to function in classes at the university that are taught in English. Students learn and practice grammar, syntax, and idioms through written drills, oral exercises, and practice paragraphs. Open to students who score 515 or below on TOEFL test. Two hours a week are required in the language lab. Meets 090 requirement. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

ENG 090 BASIC WRITING SKILLS 3 cr.
Designed to prepare students to do college-level writing. DOES NOT COUNT TOWARD TOTAL CREDITS NEEDED FOR GRADUATION.

ENG 112 COMPOSITION I 3 cr.
Intensive reading and writing of expository prose. Analytical and critical thinking and college-level research skills are emphasized. Prerequisite: Exemption from ENG 090 or equivalent transfer course.

***ENG 115 INTRODUCTION TO LITERATURE 3 cr.**
Introduction to reading poetry, fiction, drama for understanding and enjoyment.

ENG 130 INTRODUCTION TO LITERARY STUDIES 3 cr.
An intensive introduction to the discipline of literary studies for current and prospective English majors. Students will become acquainted with literary genres and terms, learn strategies for reading and understanding literature, and develop critical skill s for discussing and analyzing literary texts. Prerequisite ENG 112.

ENG 202 CREATIVE WRITING 3 cr.
Explores the fundamentals of creative writing through the use of writing exercises and the discussion of selected stories, poems, and creative essays. Emphasis will be placed on a portfolio of work submitted at the end of the semester.

***ENG 203 READINGS IN ANCIENT LITERATURE 3 cr.**
Introduction to some of the major characters, events, and ideas in the Greek, Roman, and Judeo-Christian mythologies that have so heavily influenced Western culture. (Mythology signifies the study of recurring patterns in thought and literature, not the separation of truth from fiction).

***ENG 204 READINGS IN WORLD LITERATURE 3 cr.**
Selected readings from nineteenth and twentieth century world literature, excluding British and American.

***ENG 207 READINGS IN BRITISH LITERATURE 3 cr.**
Selected readings from British literature.

***ENG 208 READINGS IN AMERICAN LITERATURE 3 cr.**
Selected readings from American literature.

***ENG 220 SPECIAL TOPICS IN LITERATURE 3 cr.**
A study of one of the following topics: Black Literature, Women's Literature, other Minority Literature, Recent Literature, Film, and Folklore. May be repeated for a total of 9 credits.

***ENG 225 ENGLISH GRAMMAR 3 cr.**
A systematic description of the rules of modern English grammar, making use of both traditional and contemporary grammatical theories. Offered spring semester.

***ENG 226 HISTORY OF THE ENGLISH LANGUAGE 3 cr.**
A study of the development of the English language from Old English to modern times with special attention to the causes of linguistic change. Offered fall semester.

ENG 230 WRITING FOR BUSINESS 3 cr.
Designed to prepare students for the daily writing tasks of the work place. Memos, reports, briefs, executive summaries, and feasibility studies comprise some of the tasks assigned in this course. E-Mail, the Internet, and word processing are also explored.

ENG 268 SURVEY OF BRITISH LITERATURE I 3 cr.
Survey of major British literature from Beowulf through Neoclassicism. Offered fall semester. Prerequisite: ENG 112.

ENG 269 SURVEY OF BRITISH LITERATURE II 3 cr.
Survey of major British literature from the Romantics through the present. Offered spring semester. Prerequisite: ENG 112.

ENG 278 SURVEY OF AMERICAN LITERATURE I 3 cr.
Survey of 17th, 18th, and early 19th century American writers. Offered fall semester. Prerequisite: ENG 112.

ENG 280 SURVEY OF AMERICAN LITERATURE II 3 cr.
Survey of late nineteenth and twentieth century American writers. Offered spring semester. Prerequisite: ENG 112.

ENG 281 COMPOSITION THEORY AND PRACTICE 3 cr.
Analysis of current theories about the writing process and methods of applying these theories, with actual practice in tutoring writing. Offered fall semester. Prerequisite: ENG 112 and 313.

***ENG 305 COMPARATIVE LITERATURE 3 cr.**
Examines major works in a genre or movement, comparing two or more national literatures. May be taken for a total of nine credits. Offered spring semester. Prerequisite: ENG 112.

ENG 307 LITERATURE IN ENGLISH FROM AROUND THE WORLD 3 cr.
Study of literature written in English outside of the British Isles and the United States. Offered fall semester. Prerequisite: ENG 112.

ENG 312 INTRO TO FICTION WRITING 3 cr.
Designed to help students find their true voice and true concerns as writers while mas-

tering the essentials of the art. Emphasis is on writing exercises and then complete works, but also on becoming better readers. In-depth discussion of student work, the assigned readings, and the process of writing. Prerequisite: ENG 202 or permission of instructor.

ENG 313 COMPOSITION/LITERATURE II 3 cr.
Advanced writing and analytical thinking based on texts from across the curriculum. Must be passed with a minimum grade of "C-" before graduation. Prerequisites: ENG 112 and 45 credits earned.

ENG 314 INTRO TO POETRY WRITING 3 cr.
Designed to help students discover and develop their voices and styles as poets. Explore poetry writing through writing exercises, through reading and discussing poems written by contemporary poets, and through discussing one another=s poems in a supportive atmosphere. Prerequisite: ENG 202 or permission of instructor.

***ENG 320 SPECIAL TOPICS IN LITERATURE 3 cr.**
A specialized study of a topic in literature, film, or folklore. May be taken for a total of 9 credits.

ENG 326 WOMEN'S LITERATURE3 cr.
A study of literature by and about women in its literary, cultural, and social contexts. May be topical, thematic, or period-based. May include such authors as Austen, Bronte, Chopin, Woolf, Emechata, Morrison, and Tan. Prerequisite ENG 112

ENG 327 AFRICAN AMERICAN LITERATURE 3 cr.
This course studies a prominent dimension of African-American Literature. Potential topics include: specific genres, important time periods, major or minor authors, comparative multicultural contexts. Students hone their critical reading and writing skills in this important and growing area of American literature. ENG 112

ENG 328 LESBIAN AND GAY LITERATURE 3 cr.
This course focuses on literature by and about lesbian, gay, bisexual, and transgendered (LGBT) people, and what it is to be LGBT in our society. Literature will be studies in conjuction with film, music, television, newspaper and magazine articles, art, and history. The emphasis of the course will be on active discussion and close scrutiny of the literature, our society, and ourselves. Prerequisite ENG 112.

ENG 329 REGIONAL LITERATURE 3 cr.
A study of literature unique to a particular region of the United States. Topics may include: literature specific to broad regions such as the American South, the American West, or Appalachia; literature specific to life in individual states, such as Pennsylvania literature; or literature specific to life in a particular urban area, such as the literature of New York City. Prerequisite ENG 112.

ENG 330 TECHNICAL WRITING 3 cr.
Develops writing for the world of technology. Focuses on skills that will be useful on the job. Uses computer technology to access and produce simple graphics; and other new technologies, students write manuals, reports, online documentation and correspondence and feasibility studies of a technical nature.

ENG 332 NATURE WRITING 3 cr.
Based on reading, obersation, and experience, students will write creative non-fiction prose about nature and discuss each other's work. The course will deal with such issues as the importance of place, the role of science in personal responses to nature, the nature of Nature, and the meaning of "nonfiction" in nature writing.

ENG 333 ADVANCED COMPOSITION 3 cr.
Designed for proficient writers to enhance and improve their composing skills through intensive expository writing. Offered spring semester. Prerequisite: ENG 112 and 313 or permission of instructor.

ENG 350 OLD AND MIDDLE ENGLISH LITERATURE 3 cr.
Study of major British writers and works from the Anglo Saxon period to 1500 such as Beowulf, "The Wanderer" and "The Seafarer;" a selection of Middle English lyrics; a mystery play, "Everyman", "Sir Gawain and the Green Knight" or "The Pearl"; a selection of tales from Chaucer's "The Canterbury Tales and Malory". Offered fall of even years. Prerequisite: ENG 112.

ENG 351 ENGLISH RENAISSANCE 3 cr.
English Renaissance literature studies writers, ideas, and historical context of the period 1500 to 1660, the Reformation through the Civil War. Emphasis on such representative texts as Spenser's Fairie Queene, Shakespeare's Macbeth, the works of the Metaphysical poets, Ralegh's History of the World, and Milton' Paradise Lost.

***ENG 352 SHAKESPEARE 3 cr.**
Selected plays of Shakespeare with interpretation, evaluation, and attention to his development as a dramatist and poet. Offered fall semester.

ENG 356 EIGHTEENTH CENTURY BIRTISH LITERATURE 3 cr.
Study of major British writers from 1660 to 1800 such as Dryden, Swift, Pope, Gay, Fielding, and Johnson. Offered spring of odd years. Prerequisite: ENG 112.

ENG 357 BRITISH ROMANTIC LITERATURE 3 cr.
Studies major British writers from 1789 to 1830, such as Austen, Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats. Offered fall of even years. Prerequisite: ENG 112.

ENG 359 VICTORIAN LITERATURE 3 cr.
Study of major British writers from 1830 to 1900, such as Dickens, G. Eliot, Tennyson, Browning, and Arnold. Offered fall of odd years. Prerequisite: ENG 112.

ENG 360 TWENTIETH CENTURY BRITISH LITERATURE 3 cr.
Study of major British writers of the 20th century, such as Yeats, Eliot, Joyce, Lawrence, Shaw, Beckett, and Pinter. Offered fall of even years. Prerequisite: ENG 112.

ENG 362 AMERICAN ROMANTICISM 3 cr.
Study of major American Romantic writers, such as Emerson, Poe, Hawthorne, Melville, and Whitman. Offered spring of even years. Prerequisite: ENG 112.

ENG 363 AMERICAN REALISM AND NATURALISM 3 cr.
Study of major American writers between the Civil War and World War II, such as Dickinson, Twain, James, Chopin, Crane, Wharton, and Dreiser. Offered fall of odd years. Prerequisite: ENG 112.

ENG 364 TWENTIETH CENTURY AMERICAN LITERATURE 3 cr.
Study of major American writers since World War I, such as O'Neill, Fitzgerald, Cather, Faulkner, Hemingway, Frost, Stevens, and Williams. Offered spring of odd years. Prerequisite: ENG 112.

ENG 376 MAJOR GENRE 3 cr.
A study of a major genre, such as poetry, drama, the novel, short fiction, nonfiction prose, or film. Prerequisite ENG 112.

ENG 385 MAJOR AUTHOR 3 cr.
A detailed study of a major author/auteur (or pair of authors/auteurs), such as Chaucer, Milton, Dickesn, Bronte, Woolf, Faulkner, Morrison, or Hitchcock. Prerequisite ENG 112.

ENG 401 SEMINAR IN LITERARY STUDIES 3 cr.
A sustained, in-depth study of literature which draws on the expertise developed in previous English courses. Topics will vary. Students will complete a seminar-length researched paper/project, culminating in the public presentation of that work. Prerquisite 75 earned credits.

ENG 411 ADVANCED FICTION WRITING 3 cr.
Through writing exercises, reading the work of published writers, and workshopping original manuscripts, students will work on creating a portfolio of short fiction. Students will also learn how to market their work. Prerequisite: ENG 313 or permission of instructor.

ENG 412 ADVANCED POETRY WRITING 3 cr.
Study of poetry by contemporary poets. Presentations will be made about poets of student's choosing. Learn how to evaluate literary markets, how to prepare a manuscript to be submitted for publication, and develop a chapbook of poems. Prerequisite: ENG 314 or permission of instructor.

ENG 414 CREATIVE NON-FICTION PROSE 3 cr.
Students will write about subjects of interest and importance to them using literary techniques and devices. Will read and discuss a selection of book-length non-fiction works: memoirs, diaries, socio-political commentary, and nature writing. Writing techniques and exercises designed to stir creativity and stimulate ideas will be used. Prerequisite: ENG 312 or 314 or permission of instructor.

ENG 416 NOVEL WRITING 3 cr.
Students will read and discuss published novels and work on writing their own, critiquing and discussing one another's work. Includes the first 3 chapters and a synopsis of the novel. Prerequisite: ENG 312 or permission of instructor.

ENG 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

ENVIRONMENTAL STUDIES

ES 300 HUMANS IN NATURE 3 cr.
Students explore the relationship between people and the natural world emphasizing modes of analysis drawn from social science, humanities, and art disciplines. The course focuses on the interdisciplinary understanding of selected issues. Prerequisites: GEG 222 and one of the following: BSC 103, CHM 103, GEL 102.

ES 497 INDEPENDENT STUDY 3 cr.
Working with an advisor outside the area of their majors, students produce interdisciplinary projects involving the relationship between people and nature. Prerequisite: Completion of 18 hours toward the Environmental Studies minor.

FRENCH

FR 101 INTRODUCTORY FRENCH I 3 cr.
For beginning students and those with less than two years of high school French. Emphasis is on grammar, pronunciation drills, aural comprehension, speaking, reading, and writing with language lab.

FR 102 INTRODUCTORY FRENCH II 3 cr.
Continuation of 101 with language lab. Prerequisite: FR 101 or equivalent.

FR 201 INTERMEDIATE FRENCH I 3 cr.
Reading texts, grammar review and further practice in aural comprehension, speaking, and writing with language lab. Prerequisite: three years of high school French or FR 102.

FR 202 INTERMEDIATE FRENCH II 3 cr.
Continuation of 201 with language lab. Prerequisite: four years of high school French or FR 201.

FR 205 PHONETICS PRONUNCIATION 1 cr.
Systematic pronunciation drill and phonetic transcription. Prerequisite: FR 102 or equivalent.

FR 300 CONVERSATIONAL FRENCH CIVILIZATION 3 cr.
Designed to gain more fluency and develop writing skills. Examines socio-economic, political, and cultural topics. Prerequisite: FR 202 or equivalent.

FR 305 ADVANCED FRENCH CONVERSATION 3 cr.
Continuation of 300. Students make oral commentaries and write reports.

FR 306 TOPICS IN FRENCH CIVILIZATION (HISTORY) 3 cr.
A brief survey of French history, with particular attention to major events and personalities. Prerequisite: FR 202 or equivalent.

FR 307 TOPICS IN FRENCH CIVILIZATION (GEOGRAPHY) 3 cr.
A study of the geography of French-speaking countries. Prerequisite: FR 202 or equivalent.

FR 308 TOPICS IN FRENCH CIVILIZATION (AFRO-FRENCH LITERATURE AND CIVILIZATION) 3 cr.
A study of Black literature written in French, Africa, and the West Indies. Prerequisite FR 202 or equivalent.

FR 309 TOPICS IN FRENCH CIVILIZATION (CONTEMPORARY PROBLEMS) 3 cr.
A study of the problems facing the people of French-speaking countries. Prerequisite: FR 202 or equivalent.

FR 310 BUSINESS FRENCH 3 cr.
An introduction to French business and its terminology: a broad study of the commercial procedures in France with a concentration on the acquisition of the necessary vocabulary.

FR 320 ADVANCED FRENCH STRUCTURE 3 cr.
A final review of the structure of French and study of short literary texts. Prerequisite: FR 202 or equivalent.

FR 330 SURVEY OF FRENCH LITERATURE I 3 cr.
Selected readings of major French writers through the 18th century, outside readings and reports, literary movements, style and form. Prerequisite: FR 202 or equivalent.

FR 331 SURVEY OF FRENCH LITERATURE II 3 cr.
Selected readings of major French writers since 1800; outside readings and reports, literary movements, style and form. Prerequisite: FR 202 or equivalent.

FR 339 FRENCH LITERATURE OF THE MIDDLE AGES AND RENAISSANCE 3 cr.
Reading and discussion of the beginnings of French literature to the end of the 16th century. Prerequisite: FR 330 and 331 or permission of instructor.

FR 340 FRENCH CLASSICAL LITERATURE 3 cr.
Critical readings and discussion of the major dramatic works of Corneille, Moliere and Racine with supplementary reading on general background. Prerequisite: FR 330 and 331 or permission of instructor.

FR 341 FRENCH LITERATURE OF THE ENLIGHTENMENT 3 cr.
Reading and discussion of the works of Voltaire, Rousseau, and Diderot. Prerequisite: FR 330 and 331 or permission of instructor.

FR 342 CURRENTS IN NINETEENTH-CENTURY FRENCH LITERATURE 3 cr.
The works of French authors as well as the main currents and form of literary expression from the beginning of Romanticism to the end of the century; Hugo, Balzac, Stendhal, Flaubert, and Zola. Prerequisite: FR 330 and 331 or permission of instructor.

FR 343 ASPECTS OF TWENTIETH-CENTURY FRENCH LITERATURE 3 cr.
Development of the novel and modern French theater: Gide, Alain-Fournier, Proust, Mauriac, Malraux, Sartre, Camus, Bernanos, St. Exupery, Green, and Lonesco. Reading and discussion of major works and a written report. Prerequisite: FR 330 and 331 or permission of instructor.

FR 350 DEVELOPMENT OF FRENCH POETRY 3 cr.
A study of the major works of poets from Villon to the present. Emphasis on interpretation and diction. Study of the French poetic. Prerequisite: FR 330 and 331 or permission of instructor.

FR 370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
Open to students who wish to continue the study of French abroad. The number of credits granted is based upon validated credentials presented to the department. Plans for foreign study should be submitted at least one semester prior to departure. Regulations regarding study abroad are available in the Office of the Provost/Vice President for Academic Affairs.

FR 371-380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See FR 370 for course description.

FR 400 SENIOR SEMINAR 3 cr.
Special study projects in French language and literature; independent reading in the defined areas followed by written analytical reports in French. Open to seniors and in exceptional cases to juniors.

FR 405 HONORS COURSE FOR FRENCH MAJORS - CREDIT ARRANGED
An individual problems course. Open to qualified seniors with consent of the department. Credit arranged.

FR 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

GEOGRAPHY

***GEG 101 WORLD REGIONAL GEOGRAPHY 3 cr.**
Regional study of the world with special emphasis on the diversity of human existence and the world-scale problems currently faced.

***GEG 102 HUMAN GEOGRAPHY 3 cr.**
Study of aspects and distribution of culture. Topics include: population, health, language, religion, and economic activities.

***GEG 111 PHYSICAL GEOGRAPHY 3 cr.**
Introduces the earth-science component of geography. Topics include: earth-sun relationships, weather and climate, vegetation and soils, and landforms.

***GEG 122 ENVIRONMENTAL ISSUES 3 cr.**
Surveys a wide range of environmental issues. Topics include: population growth, soils, floods, water availability and quality, sewage treatment, solid and toxic waste, fossil fuels, nuclear power, and alternative energy sources.

GEG 270 GEOGRAPHIC INFORMATION SYSTEMS 3 cr.
An analysis of the emerging field of Geographic Information Systems (GIS) and related technology with emphasis on both raster and vector data systems. Special emphasis is placed on practical applications.

GEG 280 CARTOGRAPHY 4 cr.
The principles and tools of cartography. Students use a combination of graphics software and mapping software to compile, design, and produce maps.

GEG 290 (GEL) MAP AND AIR PHOTO INTERPRETATION 4 cr.
Studies the interpretation of maps and aerial photographs. Topics include: location systems, scale, portrayal of relief, introductory surveying techniques, photogrammetry, interpretation principles, and specific applications.

GEG 300 GEOGRAPHIC RESEARCH 2 cr.
Studies the techniques of research in geography as well as the effective written and oral presentation of results. A research paper is required.

GEG 312 WEATHER AND CLIMATE 3 cr.
Studies the basic concepts of meteorology and climatology. Topics include: causes and consequences of climate change, surface and upper-level weather maps, severe storms, clouds, and optical phenomena.

GEG 321 (GEL) GEOMORPHOLOGY 3 cr.
Studies how landforms develop and change. Surveys the major landform regions and national parks of the United States. Interpretation of aerial photographs is an integral part of the course. Prerequisite: GEG 111 or GEL 121 or permission of instructor.

GEG 330 ADVANCED CARTOGRAPHY 3 cr.
Class-laboratory experience with the application and utilization of modern tools and techniques of cartography and graphics. Emphasis on map design and reproduction.

GEG 345 WEB BASED CARTOGRAPHY 3 cr.
This course will demonstrate the role and duties of a cartographer or graphic artist in the design and construction of a graphic-intense website. Each student will design and produce an informative and interactive website that presents a thoroughly researched topic. Students will write HTML and simple scripts that control rollovers, image maps, and slided images. In addition, they will learn about scanning, computer animation, and digital photography for the web. Prerequisite: GEG 280

GEG 364 GEOSTATISTICS 3 cr.
An introduction to the methods of geographic measurement, such as data-gathering and statistical-computerized analysis. Intended to familiarize students with more advanced methodologies of geographic research.

GEG 365 URBAN ECONOMIC GEOGRAPHY 3 cr.
An examination of the basic fundamentals of Economic Geography especially as they apply to the location and functioning or urban places in North America. Special emphasis will be placed on the evolution of North American urban places from frontier outposts to the centers of economic activity they represent today.

***GEG 380 GEOGRAPHY OF THE UNITED STATES AND CANADA 3 cr.**
An analysis of the physical and human aspects of the United States and Canada. Particular emphasis on regionalism and regional problems.

***GEG 381 GEOGRAPHY OF PENNSYLVANIA 3 cr.**
Analysis of the regional patterns of Pennsylvania. Topics include: topography, climate, water resources, mineral resources, and the historical development of economic regions within the State.

GEG 415 SPECIAL PROBLEMS IN GEOGRAPHY 2-4 crs.
Offers extensive field experience and the opportunity to observe, first-hand, a variety of natural and human processes and phenomena. May be taken for two through four credits.

GEG 420 (GEL) REMOTE SENSING 3 cr.
Examines color and color infrared aerial photography as well as Landsat, SPOT, Thermal and Radar imagery. Computer processing of Landsat data is an integral part of the course.

GEG 430 MODERN CARTOGRAPHIC TECHNIQUES 3 cr.
Advanced map design and production topics. Students use a variety of software packages and data sources to produce maps. Prerequisite: GEG 280

GEG 431 SEMINAR IN CARTOGRAPHIC PROGRAMMING 1 cr.
Examines computer programming for cartography and Geographic Information Systems. This course will cover spatial data bases, computer graphics, interface design and translations between major file formats. Prerequisite: GEG 280 and 430.

GEG 465 (GEL) SEMINAR IN ENVIRONMENTAL SCIENCE 1 cr.
An upper-level seminar that integrates and applies concepts and skills taught in the basic courses of the Environmental Science emphasis.

GEG 496 INTERNSHIP 3-12 crs.
Offers practical work experience and the opportunity to apply and further develop skills taught in the Geography Department. May be taken for three through twelve credits. Prerequisite: permission of instructor. All internships will be graded S or U – they do not affect your Q.P.A.

GEG 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

GEOLOGY

***GEL 102 ENVIRONMENTAL GEOLOGY 3 cr.**
The relationship of man to his environment will be examined with particular emphasis to problems of natural hazards (earthquakes, flooding, landslides), construction, ground water management, resources, utilization, impact mitigation and geological planning.

***GEL 121 PHYSICAL GEOLOGY 3 cr.**
A study of the solid portion of the earth, the materials of which it is composed and the processes which are acting on it. Included are such topics as rocks and minerals, weathering, and geologic structure.

GEL 290 (GEG) MAP AND AIR PHOTO INTERPRETATION 4 cr.
Studies the interpretation of maps and aerial photographs. Topics include: location systems, scale, portrayal of relief, introductory surveying techniques, photogrammetry, interpretation principles, and specific applications.

GEL 302 ENVIRONMENTAL GEOLOGY LABORATORY 1 cr.
A laboratory course for advanced studies in environmental geology. Topics will include; geologic hazards, mapping, mineral resource assessment, economic impact of geologic events and prediction/estimation exercises. Prerequisite: GEL 102: May be taken concurrently.

GEL 321 (GEG) GEOMORPHOLOGY 3 cr.
Studies how landforms develop and change. Surveys the major landform regions and national parks of the United States. Interpretation of aerial photographs is an integral part of the course. Prerequisite: GEG 111 or GEL 121 or permission of instructor.

GEL 322 HISTORICAL GEOLOGY 3cr.
A study of earth history that includes introductory through advanced topics related to geologic time, stratigraphy, paleontology, plate tectonics, an structural geology. Students will apply their new knowledge to solve a number of field, computer, and classroom-based problems. A special emphasis will be placed upon the application of historical geology to mineral resource and geologic hazard assessments. Prerequisite: GEL 121

GEL 330 HYDROLOGY 3 cr.
Hydrology is the study of water in the geological environment. Emphasis is on the occurrence, movement, quality, and quantity of surface and groundwater; quantitative geologic and hydrologic methods are included.

GEL 361 MINERALOGY/PETROLOGY 3cr.
A study of rocks and minerals that includes: their chemical and physical properties, how they are identified, where they occur, how they form, and their importance to society. Students will be actively involved with specimen identification, worldwide web activities, and presentation assignments. Prerequisite: GEL 121

GEL 420 (GEG) REMOTE SENSING 3 cr.
Examines color and color infrared aerial photography as well as Landsat, SPOT, Thermal and Radar imagery. Computer processing of Landsat data is an integral part of the course. Prerequisite: GEG 340 recommended.

GEL 465 (GEG) SEMINAR IN ENVIRONMENTAL SCIENCE 1 cr.
An upper-level seminar that integrates and applies concepts and skills taught in the basic courses of the Environmental Science emphasis.

GEL 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

GERMAN

GER 101 INTRODUCTORY GERMAN I 3 cr.
For beginning students and those with less than two years of high school German. Elements of structure, reading and writing, intensive drill in pronunciation, aural comprehension, and speaking are examined. Language laboratory attendance is required one hour per week.

GER 102 INTRODUCTORY GERMAN II 3 cr.
Continuation of 101. Language laboratory attendance is required one hour per week. Prerequisite: GER 101 or equivalent.

GER 201 INTERMEDIATE GERMAN I 3 cr.
A review of the structure of the German language with additional emphasis on listening comprehension, speaking, reading, and writing. Language laboratory attendance is required one hour per week. Prerequisite: two years of high school German, GER 102 or equivalent.

GER 202 INTERMEDIATE GERMAN II 3 cr.
Continuation of 201. Increased emphasis on the development of the four language skills, using materials taken from actual cultural and literary selections. Language laboratory attendance is required one hour per week. Prerequisite: three years of high school German, GER 201 or equivalent.

GER 205 PHONETICS AND PRONUNCIATION 1 cr.
A study of German phonetics, phonemics, pronunciation, intonation, and rhythm. The theory of the speech and articulatory mechanisms will be studied; extensive practice exercises. Prerequisite: GER 102 or equivalent.

GER 300 CONVERSATIONAL GERMAN 3 cr.
Intensive oral practice in German for the development of a higher degree of fluency in the spoken language. Emphasis on topics of cultural, social, economic, and political nature. Prerequisite: GER 202 or equivalent.

GER 305 ADVANCED GERMAN CONVERSATION 3 cr.
Intensive development of oral expression for students desiring a higher level of oral fluency. Emphasis is on enabling the student to carry on discussion in more detail and giving oral reports. Prerequisite: GER 202 or equivalent.

GER 320 ADVANCED GERMAN STRUCTURE 3 cr.
Study and practical application of the German structural patterns with concentration on the morphology and syntax of the language. Prerequisite: GER 202 or equivalent.

GER 321 COMPOSITION AND STYLISTICS 3 cr.
Development of self-expression in writing. Emphasis is on simultaneous development of expression and stylistic writing. Frequent written assignments and at least one significant written assignment of a critical nature. Prerequisite: GER 202 or equivalent and recommendation of instructor.

GER 330 SURVEY OF GERMAN LITERATURE I 3 cr.
Designed to acquaint the student with the major literary movements and representative writers of German literature from 1750. Prerequisite: GER 202 or equivalent.

GER 331 SURVEY OF GERMAN LITERATURE II 3 cr.
Sequel to GER 330. A cross section of literary movements and significant writers from the earliest periods through 1750. Prerequisite: GER 202 or equivalent. GER 330 is recommended.

GER 335 PROSEMINAR: DEUTSCHLANDKUNDE 3 cr.
Students will become acquainted with the political, educational, and economic makeup of modern Germany, including special problems of the German reunification. Contemporary German culture will also be examined in its context within society as a whole. In addition, practical aspects of everyday German life (public transportation, mail system, social behavior, etc.) are covered.

GER 336 PROSEMINAR: LAENDER UND STAEDTE 3 cr.
Emphasis is on the cultural, economic, and social significance of each major geographical region along with main cities and tourist destinations in each. Students will also prepare individual presentations on an area that interests them.

GER 337 PROSEMINAR: TWENTIETH CENTURY GERMAN LITERATURE 3 cr.
Major literary movements along with works or selections of works by representative authors will be the focus of this course. Techniques and terminology of literary analysis will be covered. Students will prepare a research project on a particular author, genre, or movement.

GER 338 PROSEMINAR: NINETEENTH CENTURY GERMAN LITERATURE 3 cr.
Readings from principal authors of the 19th century will be used to analyze the various literary and social movements that characterized this period. Students will be expected to carry out a research project.

GER 341 PROSEMINAR 3 cr.
Change topic. Prerequisite: GER 202 or equivalent competency, GER 320 preferred.

GER 360 SEMINAR: GERMAN CULTURAL HISTORY 3 cr.
Survey of the cultural development of the German-speaking areas from the tribal migration period through the recent reunification. Emphasis is on literary, architectural, musical, scientific, and artistic achievements of each period and how these interact. Students will prepare several brief presentations and an in-depth project.

GER 361 SEMINAR: EIGHTEENTH CENTURY GERMAN LITERATURE 3 cr.
Literary and social periods of the 18th century and texts by representative authors will be stressed. Students will gain exposure to older literary styles and language usage. Each student will carry out a research project on one author or movement within the period.

GER 362 SEMINAR: GERMAN LYRIC POETRY 3 cr.
A representative sample of lyric poetry from the earliest extant examples up to that of contemporary times. Students will be exposed to metrical analysis, poetic devices and forms, and terminology used in literary discussions of verse. Written project and smaller oral presentations required.

GER 363 SEMINAR: THE GERMAN NOVELLE 3 cr.
This is a genre-study course that concentrates on the Novelle (longer short story or nov-

elette) as it developed in the German-speaking countries. Authors studied are from the 19th and early 20th centuries, covering romanticism to realism.

GER 364 SEMINAR: GERMAN DRAMA 3 cr.
Representative plays and theories of drama from each of the main literary movements will be studied in their social and artistic contexts. A research project will be required, part of which might be, depending upon wishes of the class, actual scenes for presentation to class or campus audience.

GER 370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
"Strongly recommended for all German majors - especially those in the BSE program or who plan to pursue graduate work, but open to students of any major who wish to live and study in Germany." The number of credits granted is based upon validated credentials presented to the department. Plans for foreign study should be submitted at least one semester prior to departure. Regulations regarding study abroad are available in the Office of the Provost/Vice President for Academic Affairs.

GER 371-380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See GER 370 for course description.

GER 400 SENIOR SEMINAR 3 cr.
Possible topics: works of one specific author (e.g., Boll, Brecht, Heine, Durrenmatt, Goethe, Schiller, Grass); children's literature and fairy tales; literature of the former East Germany; introduction to Middle High German; history of the German language; introduction to comparative Germanic philology. Other topics possible if prearranged with instructor.

GER 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2, or 3 credits at one time.

HEALTH AND PHYSICAL EDUCATION

HPE 100 HEALTH (PERSONAL AND COMMUNITY) 2 cr.
Includes health services, health instruction, and health environment dealing with contemporary principles, practices, and concepts serving personal, family, and community health.

HPE 101-148: 1 cr.
Serves the individual with little or no experience in the activity selected. Emphasis on beginner-level fundamental skills in seasonal activities for individual, dual, and team sports.

HPE 101 BEGINNING SWIMMING 1 cr.

HPE 102 BEGINNING BOWLING 1 cr.

HPE 103 BEGINNING TENNIS 1 cr.

HPE 104 BEGINNING BADMINTON AND TENNIS 1 cr.

HPE 105 BEGINNING BADMINTON AND GOLF 1 cr.

HPE 106 BEGINNING ARCHERY 1 cr.

HPE 107 BEGINNING BILLIARDS 1 cr.

HPE 108 BEGINNING RACQUETS 1 cr.

HPE 109 BEGINNING SKIING 1 cr.

HPE 110 BEGINNING GOLF 1 cr.

HPE 114 ARCHERY AND VOLLEYBALL 1 cr.

HPE 115 CONDITION AND BODY AWARENESS 1 cr.

HPE 116 BASKETBALL AND SOCCER 1 cr.

HPE 117 BADMINTON AND RACQUETBALL 1 cr.

HPE 118 RACQUETBALL 1 cr.

HPE 119 AEROBIC AQUATICS 1 cr.

HPE 120 TENNIS AND BADMINTON 1 cr.

HPE 122 CONDITION AND WEIGHT TRAINING 1 cr.

HPE 123 BADMINTON AND VOLLEYBALL 1 cr.

HPE 125 FIELD HOCKEY AND RACQUETBALL 1 cr.

HPE 127 BEGINNING GOLF VOLLEYBALL 1 cr.

HPE 128 AEROBIC CONDITIONING 1 cr.

HPE 129 ARCHERY 1 cr.

HPE 130 GOLF 1 cr.

HPE 131 WALK LIFE FITNESS 1 cr.

HPE 132 HYDRO AEROBICS 1 cr.

HPE 134 BILLIARDS 1 cr.

HPE 135 RACQUETBALL AND TENNIS 1 cr.

HPE 136 RECREATIONAL SWIMMING ACTIVITIES 1 cr.

HPE 137 TENNIS AND VOLLEYBALL 1 cr.

HPE 138 TENNIS 1 cr.

HPE 139 SOFTBALL AND VOLLEYBALL 1 cr.

HPE 140 RACQUETS 1 cr.

HPE 141 BADMINTON AND RACQUETBALL 1 cr.

HPE 142 BADMINTON AND TENNIS 1 cr.

HPE 143 INTERMEDIATE SWIMMING 1 cr.

HPE 144 INTERMEDIATE SKIING 1 cr.

HPE 145 INTERMEDIATE TENNIS AND VOLLEYBALL 1 cr.

HPE 146 INTERMEDIATE BOWLING 1 cr.

HPE 148 ADVANCED SWIMMING 1 cr.

HPE 149 LIFEGUARD TRAINING 1 cr.

Designed to provide necessary minimum skills for a person to serve as a non-surf lifeguard. Reaching, throwing, wading and swimming rescue techniques. American Red Cross certification upon successful completion. Prerequisite: current Standard First Aid and Adult CPR certification.

HPE 151 ADVANCED BADMINTON 1 cr.
Serves the individual with little or no experience in the activity selected. Emphasis on beginner-level fundamental skills in seasonal activities for individual, dual, and team sports.

HPE 160 LIFEGUARD INSTRUCTOR 1 cr.
Students currently certified as lifeguards will develop skills to teach lifeguard training and CPR for the professional rescuer. Prerequisites: Current Lifeguard and CPR Professional Rescue Certification or HPE 149.

HPE 164 AEROBIC CONDITIONING AND CPR 1 cr.
Foundations, design, and evaluation of individualized aerobic conditioning programs with a variety of activities and American Red Cross Community CPR.

HPE 165 HIKING 1 cr.
Designed to cover the broad scope of activities concerned with hiking, compass use and orienting. Emphasis will be placed upon safety, equipment, and traversing various trails in Tioga County. Participation in weekend sessions is required.

HPE 225 WATER SAFETY INSTRUCTION 2 cr.
Provides students with the practical experience and knowledge needed to teach swimming beginning at the non-swimmer level up to advanced senior life saving. Prerequisite: completion of advanced life saving.

HPE 300 TECHNIQUES OF COACHING TRACK AND FIELD 3 cr.
Participation in actual training techniques in track and field. Planning and organizing equipment for a track program will be studied.

HPE 305 COACHING AND OFFICIATING WRESTLING 3 cr.
Practical training in wrestling fundamentals, strategy and the psychology of coaching, fundamentals of officiating, rule interpretation and preparation.

HPE 310 SPECIAL PHYSICAL EDUCATION FOR THE EXCEPTIONAL CHILD 3 cr.
A comprehensive analysis of the physically, emotionally, and socially handicapped student. Includes selected activities and achievement standards in the field of health, physical education, and athletics.

HPE 315 ATHLETIC TRAINING 3 cr.
Designed to provide experience in the application of various methods of treatment to athletic injuries. A study of preventive measures and medical management of athletic injuries.

HPE 320 BASIC FOOTBALL 3 cr.
Examines the methods, techniques, and psychology used in coaching football. Provide the prospective coach with knowledge of the personal problems in motivating and handling individual players.

HPE 330 COACHING BASKETBALL 3 cr.
Practical training in the areas of basketball fundamentals, individual and team play, strategy, and the psychology of coaching.

HPE 340 FIRST AID AND CPR (STANDARD AND ADVANCED) 3 cr.
Theory and application of the methods, techniques, and psychology used in first aid and safety. Basic, multi-media, SFAPS and CPR certification included.

HPE 341 ADVANCED FIRST AID AND CPR RECERTIFICATION 3 cr.
To provide advanced skills and knowledge when responding to first aid situations: to certify instructors where there is a need for basic first aid, multi-media first aid, and stan-

dard first aid and personal safety; to recertify current first aiders.

HPE 350 METHODS I, TEACHING HEALTH AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOL 2 cr.
Principles, problems, materials, and techniques for conducting the health and physical education programs in the elementary schools.

HPE 360 KINESIOLOGY 3 cr.
Analysis of human motion based on anatomical and mechanical principles. Applications of mechanics to sports activity. Prerequisite: BSC 121

HPE 370 PHYSIOLOGY OF EXERCISE 3 cr.
Critical analysis of physiological bases of muscular activity with special attention to general effects of exercise on body function. Prerequisite: BSC 122 and HPE 360.

HPE 375 ADVANCED ATHLETIC TRAINING 3 cr.
An in-depth study of detailed orthopedic evaluation of injuries to athletes. Rehabilitation of specific major joints from post-op to competition will be studies. Prerequisite: HPE 206, 207 and 315.

HPE 376 ATHLETIC TRAINING LAB III 1 cr.
Examines the therapeutic modalities commonly used in the field of athletic training. Students in the area of concentration will be required to perform clinical work under the direct supervision of a licensed NATA certified athletic trainer.

HPE 377 ATHLETIC TRAINING LAB IV 1 cr.
The use and misuse of prescription and non-prescription medication in athletics today. The student will be required to perform clinical work under the direct supervision of a licensed NATA certified athletic trainer. Prerequisite: HPE 376

HPE 390 COACHING BASEBALL 3 cr.
Provides the knowledge, skills, and attitudes to prepare students to coach high school baseball programs dealing with organizational factors of coaching as well as the strategies and skills of the game.

HPE 420 HUMAN BEHAVIOR IN COACHING 3 cr.
Designed for the experienced coach as well as the future coach to acquire a better understanding of the most important and least understood aspect of athletics. Includes appropriate techniques to teach athletics to consciously affect motivational processes.

HPE 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

HISTORY

***HST 111 WORLD CIVILIZATION I 3 cr.**
A survey of significant ideas, events, and cultural developments in world history from the emergence of ancient civilizations to the Renaissance.

***HST 112 WORLD CIVILIZATION II 3 cr.**
A continuation of HST 111, beginning with the Protestant Reformation to the close of the 19th century, including the political, economic, and social forces that affected the world.

***HST 113 WORLD IN THE TWENTIETH CENTURY 3 cr.**
A survey of the cultural, political, economic, and social forces that have shaped the 20th century world, with particular emphasis on global historical trends.

***HST 201 AMERICAN HISTORY THROUGH THE CIVIL WAR 3 cr.**
A survey of American history covering the 17th century colonization; independence and formation of the Federal Union; nationalism, sectionalism and growth of democracy in the 19th century; and the Civil War.

***HST 202 AMERICAN HISTORY - RECONSTRUCTION TO THE PRESENT 3 cr.**
A continuation of 201, covering significant trends and events in the rise of modern industrial America, its emergence as a world power and events through the 1980's.

***HST 210 HERSTORY: THE AMERICAN SIDE OF WOMEN'S PAST 3 cr.**
Explores the life stories, experiences, and thoughts of American women 1607-present. Themes are changing expectations of women and men in society, women in the labor force, and the equal rights movement.

***HST 220 WORLD WAR II 3 cr.**
The origin, background, and course of World War II and its effects upon world affairs. Deals with battles and the scientific, psychological, political, and economic impact of the war.

***HST 226 FILM AS HISTORY 3 cr.**
Explores how the cinema, the 20th century's most important mass medium, has portrayed and presented history on the screen. We view various feature films with historical topics and then analyze how these films present history to their audiences. We look into not only questions of visual representation, but also the problem of factual accuracy.

***HST 265 HISTORY OF SPORTS IN AMERICAN SOCIETY 3 cr.**
Topics include: evolution of major sports, influence of organization and technology, critics of sports, racism, role of women and labor relations within sports, sports in the school, various sports heroes, and sports and culture.

HST 290 HISTORICAL METHODS 3 cr.
Introduces the student to the discipline, methods, and techniques of historical research and writing. Examines the major interpretations of history.

***HST 295 TOPICS IN HISTORY 1 - 3 cr.**
A special area that is of current interest. May be taken for 1 through 3 credits.

HST 303 EARLY AMERICAN HISTORY TO 1800 3 cr.
A study of the exploration and settlement of North America with emphasis on English colonies through independence and the early years of the new nation. Particular emphasis on political, social, and economic developments.

HST 304 HISTORY OF THE CIVIL WAR AND RECONSTRUCTION 3 cr.
Sectional controversy; constitutional issues, secession and military conflict; the aftermath of the war, North and South, with emphasis on political development during reconstruction ending. Prerequisite: one history course or permission of instructor.

HST 307 CONTEMPORARY AMERICA 3 cr.
American political, diplomatic, and social developments in the Atomic Era. Watergate, Vietnam and Civil Rights are key points studied. Prerequisite: One history course or permission of instructor.

HST 308 RISE OF INDUSTRIAL AMERICA, 1877-1945 3 cr.
Study of the growth of big businesses and influential figures of corporate America. Also addresses the political and social implications on American society. Prerequisite: One history course or approval of instructor.

HST 310 AFRO-AMERICAN EXPERIENCE 3 cr.
African heritage, Atlantic slave trade, American slavery, Civil War and Reconstruction, segregation and disfranchisement, the Harlem Renaissance, and Black Revolution, black resistance, and the quest for a black identity. Prerequisite: one history course of permission of instructor.

HST 313 WOMEN IN EUROPE 3 cr.
This course will explore the following issues in European women's history: cultural construction of gender roles, definitions of femininity and masculinity, family life, religion, culture, work, race, ethnicity and class.

HST 315 (SWK) HISTORY OF SOCIAL WELFARE IN AMERICA 3 cr.
The development of the public welfare systems as a mirror reflecting Americans' changing attitudes toward misfortune and relief. Centers upon a central issue of historical evaluation and contemporary policy: the appropriate balance between assistance-security and work-independence objectives in public welfare efforts. Prerequisite: one history course or permission of instructor.

HST 320 HISTORY OF AMERICAN TECHNOLOGY AND ENVIRONMENT 3 cr.
Study of the American landscape and its inhabitants. Role of technology in American society and its impact on the environment. Environmental thought and issues on the changing landscape. Implications of population growth, technology, industries, and development on the American economy and society. Prerequisite: One history course or approval of instructor.

HST 330 ROME: FROM REPUBLIC TO EMPIRE 3 cr.
Traces the history of Rome from the founding of the Roman Republic in the 5th century B.C. to the fall of the Western Roman Empire in 476 A.D. Particular emphasis is placed on cultural and political trends during the late Republic and early Empire. Prerequisite: one history course or permission of instructor.

HST 333 HISTORY OF ETHNIC AND Religious DIVERSITY IN AMERICA 3 cr.
The origins of immigration to the United States and the interaction of immigrants with the social, political, and economic life of the nation, with emphasis on such topics as nativism, assimilation, and the "ethnic legacy." Surveys the impact of the development of religious institutions, ideas, and values on American culture.

HST 345 MIDDLE AGES: LIFE AND STYLE 3 cr.
The political, socioeconomic, and cultural development of the civilization of Medieval Europe from the fall of Rome to the Medieval synthesis in the High Middle Ages. Prerequisite: one history course or permission of instructor.

HST 350 INTRODUCTION TO PUBLIC HISTORY 3 cr.
An introduction to selected areas of the public history field for those students who would like to know more about career and employment opportunities outside of teaching. Topics include museums, archives, historic site interpretation, historic preservation, and historical societies.

HST 366 TWENTIETH CENTURY EUROPE 3 cr.
A study of the political, economic, cultural, and international developments in Europe during the twentieth century. Particular attention is given to the two World Wars and

their causes, the rise of mass culture, the cold ware, and the revolutions of 1989. Prerequisite: One history course or permission of instructor.

HST 377 HISTORY OF LATIN AMERICA 3 cr.
A survey of Mexico, Central America, South America, and the Caribbean from Pre-Columbian Indian Civilizations to the 20th century. Emphasis is placed on the factors that have affected the region's social, economic, and political development..

HST 387 HISTORY OF EAST ASIA 3 cr.
Traditional cultures and institutions of China and Japan and their roles in Korea and Southeast Asia; the role of Western powers in China's development; post-war changes; United States foreign policy in relation to the Far East; and the emergence of Communist China and Modern Japan are discussed. Prerequisite: one history course or permission of instructor.

HST 388 HISTORY OF AFRICA 3 cr.
Surveys the history of Africa from Paleolithic times to the presents, with particular emphasis on broad regional trends and the formation of African states after 1800. No prerequisites.

HST 389 VIETNAM WAR 3 cr.
Examines the historical, military, political, religious, and social aspects of the war. Includes the effect on Vietnam politically and culturally. American domestic concerns, international aspects and consequences will be covered. Prerequisite: HST 202 or permission of instructor. Dual listed with 589.

HST 401 HISTORY OF PENNSYLVANIA 3 cr.
The founding and development of Pennsylvania, emphasizing the social, political, and economic characteristics of the Commonwealth; the diversity of its people; local and family history is an important aspect. Prerequisite: one history course or permission of instructor.

HST 406 THE WESTWARD MOVEMENT IN AMERICA 3 cr.
Settlement of the geographic areas and the influence of westward expansions on the political, social and economic development of the American people. Includes the trans-Mississippi West and role of the Plains Indian in American history. Prerequisite: one history course or permission of instructor.

HST 415 MODERN AMERICAN DIPLOMACY 3 cr.
Explores American diplomacy from the Spanish American War through recent events. Included are the techniques, purposes, and problems of diplomacy. Prerequisite: HST 202 or permission of instructor.

HST 420 NAZI GERMANY AND THE HOLOCAUST 3 cr.
Explores the political, cultural, economic, and social history of National Socialism, from Hitler's rise to political prominence in the 1920s to the demise of the Third Reich in May, 1945. Particular attention is paid to the genesis of the Nazi Holocaust and its historical repercussions. Prerequisite: One history course or consent of the instructor.

HST 431 HISTORY OF CONSUMER CULTURE IN AMERICA 3 cr.
Rise of contemporary consumption and its impact on American society since late 19th century. Historiography of consumer thought, materialism, and social excesses.

HST 450 INTERNSHIP 3 - 12 cr.
Provides pre-professional skills. Museum and archival work are examples of areas in which students can bring together academic training and practical experience. Prerequisite: permission of department chairperson, sponsoring instructor, and an agency. May be taken for 3 through 12 credits.

HST 452 SOUTH AFRICA: FROM CAPE COLONY TO APARTHEID 3 cr.
Explores the history of South Africa, from its founding as a Dutch Colony in 1652 to the collapse of the Apartheid system in the 1990s and the election of Nelson Mandela as president of a multiethnic nation. Particular emphasis is placed on the history of racial segregation and the development of Apartheid. Prerequisite: One history course.

HST 471 HISTORY OF MEXICO AND THE CARIBBEAN 3 cr.
A survey of Mexico and the Caribbean basin from the rise of native civilizations to the revolutions of the 20th century and their aftermath. Studies the interaction of various racial groups, the formation of distinct national identities, and class conflict.

HST 487 PACIFIC RIM: HISTORY AND THE CONTEMPORARY WORLD 3 cr.
Study of the cultures and traditions of China, Japan, Korea, and Southeast Asian countries with special focus on the Newly Industrialized Countries and their participation in the global economy.

HST 496 SEMINARS ON SELECTED TOPICS 3 cr.
In-depth knowledge of historical methodology and research. Significant historical problems are selected for oral discussion. Prerequisite: one history course or permission of instructor.

HST 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

HONORS

***HON 100 HUMANITIES HONORS I 3 cr.**
Introduction to the humanities by means of an interdisciplinary content drawn from literature, philosophy, theater, music, art, and history.

***HON 101 HUMANITIES HONORS II 3 cr.**
Continuation of HON 100.

***HON 107 MACRO PHYSICAL SCIENCE 3 cr.**
An introduction to motion and energy, astronomy, thermodynamics, and sound. Students will construct laboratory apparatus from readily available sources to make measurements. Regularly cross-listed with CHM 107 and PHY 107, Offered in Fall semester.

***HON 108 MICROPHYSICAL SCIENCE 3 cr.**
An introduction to the atom, chemistry, electricity and magnetism, and light. Students will construct laboratory apparatus from readily available sources to make physical measurements. Regularly cross-listed with CHM 108 and PHY 108. Offered in Spring semester.

***HON 200 RESEARCHING CONTEMPORARY ISSUES 3 cr.**
This course focuses on a series of case studies drawn from recent events of local, national and international importance, with an emphasis on interdisciplinary research methods.

HON 301 FIELD WORK IN THE NATURAL AND SOCIAL SCIENCES 3 - 4 cr.
In this course, students work individually and collaboratively on field-based research projects in the natural or social sciences. Regularly cross-listed with ANH 301, ANH 410, and GEL 330. Prerequisites: HON 100, 101, and 200, or permission of the instructor.

***HON 497 INDEPENDENT STUDY (SENIOR PROJECT) 1 - 3 cr.**
A semester-long project, generally related to the student=s major, that involves the perspective of at least one other academic discipline. The project is supervised by a faculty member of the students choosing. The project, however, must be approved by the Honors Program Director. A formal presentation before students and faculty is expected at the culmination of the project.

JOURNALISM

JN 100 JOURNALISM 3 cr.
Introduces the nature and practice of newsgathering, reporting, writing, editing, and professionalism. Students acquire basic skills by covering textbook examples and off-campus breaking stories.

JN 200 CRISIS NEWS ANALYSIS 3 cr.
Critically examines roles, functions, and performance of the media during crises. Addresses the nature of crisis reporting of war, disaster, and the global environment. Prerequisite: JN 100 or instructor permission.

JN 210 MEDIA DESIGN 3 cr.
Presents communication/design concepts, applications and production methods, including computer desktop publishing. Lessons focus on design principles, typography, printing processes, copywriting, budget/production planning, and mechanical production for various printed materials.

JN 310 SPECIALIZED NEWS AND FEATURE WRITING 3 cr.
Develops the journalism craft beyond routine coverage practices. Field assignments and classroom workshops offer practical experience in non-fiction depth/feature writing styles, interviewing techniques, and story marketing. Prerequisite: JN 100.

JN 320 MAGAZINE WRITING AND PRODUCTION 3 cr.
Explores advanced non-fiction feature article writing and literary journalism, with an emphasis on magazine writing, design, and production. Students create the annual edition of Crossroads magazine published in May since 1990. Prerequisite: JN 100, JN 310, or instructor permission.

JN 330 CONTEMPORARY ISSUES IN JOURNALISM 3 cr.
Engages students in issues, problems, and criticism concerning the mass media. Material covers media ethics; First Amendment and libel concerns; group media ownership; and public perception of the media. Prerequisite: JN 100 or professor permission.

JN 495 INTERNSHIP 1 - 12 cr.
An "internship" or work with local newspaper. Practice working on a publication, with attention given to the student's journalistic interest (news reporting, photography, editing) and the major aspects of production. May be taken for 1 through 12 credits. Prerequisite: JN 100.

MATHEMATICS

MA 090 BASIC ALGEBRA 3 cr.
Introduction to basic algebra. Topics include real numbers, linear equations, formulas, exponents, polynomials, factoring, rational expressions and equations, graphing, systems of equations, radicals, word problems, and applications. DOES NOT COUNT TOWARD GENERAL EDUCATION OR TOTAL CREDITS NEEDED FOR GRADUATION.

MA 115 SURVEY OF MATHEMATICAL IDEAS 3 cr.
A liberal arts course designed to acquaint the student with the nature and scope of modern mathematics. Emphasis is on concepts and understanding rather than the acquisition of technique. Topics included are suitable for the non-science liberal arts student. No extensive background in algebra is required.

MA 117 MATHEMATICS AND CULTURE 3 cr.
An investigation of the origins, nature, and purposes of mathematics and its importance in the larger culture. Working within the historical framework, the student is introduced to significant mathematical concepts including the axiomatic method, symbolic logic, and the structure of number systems and their relations to one another. The motivation for, development of, and basic procedures of various branches of mathematics (including trigonometry, analytic geometry, calculus, probability and statistics, and Euclidean and non-Euclidean geometry) are investigated. In the process, students will frequently be involved in discussions of the closely related fields of history, science, and philosophy.

MA 119 FUNDAMENTALS OF MATHEMATICAL REASONING 3 cr.
This course will center on quantitative reasoning skills. Areas of focus include deductive and inductive reasoning, critical thinking, numerical and geometrical reasoning, developing number sense, decision making under uncertainty, and mathematical communication skills. These skills will be presented and developed within the context of classical and everyday mathematical applications.

MA 125 INTRODUCTORY STATISTICS I 3 cr.
A survey of basic statistical methods for analyzing data. Topics include descriptive statistics, probability, sampling, point and interval estimation, hypothesis tests, linear regression, correlation, and non-parametric tests.

MA 126 INTRODUCTORY STATISTICS II 3 cr.
This course will explore interesting data intensive applications through statistical computerized analysis. The course will apply concepts studied in ma 125, introduction to statistics, and use computer software to conduct data manipulation and analysis. Prerequisites: MA 125 or 314.

MA 128 COLLEGE ALGEBRA 3 cr.
Review of ideas in basic algebra, graphs, equations, inequalities, and a strong emphasis on functions (general, polynomial, rational, exponential and logarithmic).

MA 129 FINITE MATHEMATICS 3 cr.
An initial treatment of those topics in basic mathematics that are of special importance in business and the social sciences. Topics included are logic, sets and counting techniques, probability, mathematical models, linear equations and inequalities, introduction of linear programming, and matrices, also Markov Chains and Game Theory.

MA 165 PRE-CALCULUS MATHEMATICS 3 cr.
Intended to prepare students for the study of calculus. Topics include functions, graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry. Prerequisite: MA 128 or equivalent.

MA 170 FUNDAMENTAL CONCEPTS OF CALCULUS 3 cr.
The fundamental concepts of calculus is for non-physical science majors utilizing the basic techniques of differential and integral calculus. Not available to students who have completed MA 231. Prerequisite: MA 128 or equivalent.

MA 203 TOPICS IN ALGEBRA AND GEOMETRY 3 cr.
A study of the basic ideas and structure in modern arithmetic, algebra, and geometry.

MA 231 CALCULUS I 4 cr.
The purpose of this course is to develop a good understanding of the derivative and its uses, to introduce the definite integral, and to establish the important relationship between the derivative and the definite integral. This course is intended for mathematics, science, and engineering majors. Prerequisite: High school algebra and trigonometry or MA 165.

MA 232 CALCULUS II 4 cr.
This is a continuation of 231 and is intended to develop a good understanding of the definite integral and its uses, and to develop basic integration techniques. Differential equations, Taylor polynomials, and series are also covered. Prerequisite: MA 231 or equivalent.

MA 233 CALCULUS III 4 cr.
This is a continuation of 232 and the purpose of this course is to investigate functions of two or more variables. Topics include graphing functions of two or more variables, partial derivatives, vectors, optimization, double and triple integrals, and line and surface integrals. Prerequisite: MA 232 or equivalent.

MA 260 DISCRETE STRUCTURES 3 cr.
Foundations of mathematics, emphasizing fundamental concepts in abstract mathematics and deductive reasoning. Topics will include logic, Boolean algebra, sets, functions, relations, cardinality, number systems, abstract systems, and algorithms.

MA 280 LINEAR ALGEBRA AND MATRIX THEORY 3 cr.
Topics: geometry of vectors, matrix algebra and operations, solutions of general systems of linear equations, inversion of matrices, determinants, vectors and vector spaces, subspaces, linear independence, bases and dimension, linear transformations, characteristics roots and vectors, and applications. Prerequisite: MA 232.

MA 301 SURVEY OF MATHEMATICAL MODELS 3 cr.
A survey of different math models, some deterministic and some stochastic, requiring no calculus background, designed to show non-trivial applications. Computer use is emphasized. Prerequisite: MA 125, 127, 129 or 180.

MA 304 HISTORY AND PHILOSOPHY OF MATHEMATICS 3 cr.
A study of the chronological development of facets of mathematics that have contemporary importance. The historical and philosophical background of each facet is integrated with experience in mathematical study and application. Emphasis is placed on great contributors of mathematics, their contributions, and their methods of reasoning. Prerequisite: MA 260.

MA 308 OPERATIONS RESEARCH 3 cr.
Examines the development and use of the techniques of research. Topics include linear programming, queuing theory, probabilistic inventory models, and simulation. Prerequisite: MA 125, 232, 260, 280, or 314.

MA 310 NUMERICAL ANALYSIS 3 cr.
A study of numerical methods for the solution of algebraic, transcendental, and differential equations, numerical integration and differentiation, and error analysis. Prerequisite: MA 232.

MA 311 DIFFERENTIAL EQUATIONS I 3 cr.
Techniques for solving ordinary differential equations, superposition principle, existence and uniqueness theorem, applications. Prerequisite: MA 232 (may be taken concurrently).

MA 312 DIFFERENTIAL EQUATIONS II 3 cr.
Additional work in partial differential equations and boundary value problems, numerical methods, qualitative treatment of differential equation in phase plane, stability issues. Prerequisite: MA 311, 233 (may be taken concurrently).

MA 314 APPLIED PROBABILITY AND STATISTICS 3
An introduction to applications of descriptive and inferential statistics and probability. Frequency distributions, measures of location and variation, probability, expected value, and decision making; probability distributions, sampling and sampling distributions; inferences concerning means, standard deviations, and proportions; analysis of variance, non-parametric methods, regression, correlation, planning surveys and experiments. Prerequisite: MA 170 or 232.

MA 315 APPLIED REGRESSION ANALYSIS 3 cr.
Simple and multiple regression will be used to analyze data. Residual analysis, indicator variables, and step-wise and polynomial regression. Computer software will be used to analyze data. Prerequisite: MA 125 or 314.

MA 316 ANALYSIS OF VARIANCE AND DESIGN OF EXPERIMENTS 3 cr.
One-way and two-way analysis of variance will be studied in depth. The design part of the course will include randomized block designs, nested designs, repeated measure designs, and factorial designs. Computer software will be used to analyze data. Prerequisite: MA 126, MA 314, MA 315.

MA 317 STATISTICAL PROCESS QUALITY CONTROL 3cr.
The course will incorporate a variety of data analysis techniques particularly useful in understanding principles and practices of statistical process quality control. Case studies wil exemplify process situations for analysis. Topics include data organization and presentation, statistical concepts relating to processes, analysis of measurement and attribute data, measures of chart performance, tolerances, specifications, process capability studies, and short-run control charts. Prerequisite: MA 126, MA 314, MA 315, MA 316.

MA 324 APPLIED MATHEMATICS 3 cr.
Illustrates the principles and basic styles of thought in solving physical problems by mathematical methods. Particle dynamics, heat and fluid flow, wave equations, vector, Fourier and tensor analysis. Prerequisite: MA 232, 280.

MA 329 MODERN GEOMETRY I 3 cr.
An introduction to the foundations of geometry with emphasis on the axiomatic development of the Euclidean system. Prerequisite: MA 260.

MA 330 MODERN GEOMETRY II 3 cr.
The foundations of geometry with emphasis on non-Euclidean axiomatic structures. Prerequisite: MA 329 or permission of instructor.

MA 332 APPLIED COMBINATORICS 3 cr.
Applied discrete mathematics emphasizing combinatorics and graph theory. Topics will be chosen from counting methods, generating functions, recurrence relations, inclusion-exclusion, the polya enumeration formula, graph theory, covering circuits, trees, and searching and network algorithms. Prerequisite: MA 231.

MA 335 NUMBER THEORY 3 cr.
An analytical study of basic concepts including divisibility, congruence, quadratic reciprocity and Diophantine equations. Varied methods are stressed. Prerequisite: MA 232, 260.

MA 345 REAL ANALYSIS I 3 cr.
The real number system. Emphasis on the concepts and theoretical approach to calcu-

lus: functions, sequences, series, limits, continuity, derivatives, the Riemann integrals, and sequences of functions. Prerequisite: MA 233, 260.

MA 346 REAL ANALYSIS II 3 cr.
A continuation of 345. Prerequisite : MA 345

MA 348 COMPLEX VARIABLES 3 cr.
A first course in complex variables. Complex numbers, analytic functions, elementary functions, mappings by elementary functions, integrals, power series, residues, poles, and conformal mappings. Prerequisite: MA 233.

MA 361 MODERN ALGEBRA I 3 cr.
Sets, rings, integral domains, fields, groups, polynomials, congruences, algebra or classes, mappings, homomorphisms and isomorphisms. Prerequisite: MA 260 or permission of instructor.

MA 362 MODERN ALGEBRA II 3 cr.
A continuation of 361 consisting of a more detailed study of groups, rings, ideals, fields, and selected topics. Prerequisite: MA 361.

MA 371 MATHEMATICAL STATISTICS I 3 cr.
Distributions of discrete and continuous random variables, expected values and moments, conditional probability and independence, special discrete and continuous distributions. Prerequisite: MA 233.

MA 372 MATHEMATICAL STATISTICS II 3 cr.
Interval estimation, order statistics, point estimation, tests of hypotheses. Prerequisite: MA 371.

MA 381 TOPOLOGY 3 cr.
Introduction to point-set topology. Set theory, metric spaces, topological spaces, connectedness, and compactness. Prerequisite: MA 232, 260.

MA 401 SELECTED TOPICS 3 cr.
Selections from topology, algebra, real analysis, matrix theory, computer science or other junior or senior level topics. Active participation by the student is required. Prerequisite: permission of instructor.

MA 402 SEMINAR 1 - 3 cr.
Papers from the American Mathematical Monthly, comparable journals, and various references will be presented and discussed by the students. Continuous reading and participation will be required. May be taken for a total of six credits. Prerequisite: Permission of instructor.

MA 450 INTERNSHIP 3 - 12 cr.
Supervised and evaluated participation in the regular activities of a business, government, agency, or appropriate organization. In consultation with the supervising faculty member, the student is expected to prepare a comprehensive final report relating to the work accomplished during the internship. May be taken for three through twelve credits. No more than six credits count toward the major. Prerequisite: Recommendation by department faculty.

MA 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

MUSIC - APPLIED

MAP 101 VOICE CLASS I 1 cr.
Develops proper vocal production, poise, and confidence in solo singing. Remedial work for individual problems.

MAP 102 VOICE CLASS II 1 cr.
Continuation of MAP 101. Prerequisite: MAP 101.

MAP 103 ADVANCED VOICE CLASS 1 cr.
Instruction in voice will be given on a level beyond MAP 101 and 102. Goals of the course: to improve technique, quality, and artistry of individual voices; and to focus class attention on common vocal problems and their remediation.

MAP 112 BEGINNING PIANO CLASS 1 cr.
Remedial piano study for those with no prior piano experience.

MAP 113 CLASS PIANO I 1 cr.
For the student with limited piano skill. Prerequisite: ability to perform with reasonable fluency at least five pieces from the last pages of any standard first grade instruction book (such as Thompson, Schaum, Fletcher, Kasschau, et al.), and to play at sight pieces from the first half of a similar book.

MAP 114 CLASS PIANO II 1 cr.
Designed for the music major who might reach the level of skill required by the first proficiency examination. May be taken for a total of three credits.

MAP 115 ADVANCED PIANO CLASS 1 cr.
Designed for the music education vocal concentration major. Development of advancing piano skills to reach the level of the Third Proficiency. Prerequisite: Passing of the First Proficiency Examination or audition.

MAP 131 WOODWIND CLASS I 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the flute and clarinet; study of the literature appropriate for beginning class instruction.

MAP 132 WOODWIND CLASS II 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the saxophone, oboe, and bassoon; study of the literature appropriate for beginning class instruction.

MAP 133 ADVANCED WOODWIND CLASS 1 cr.
Instruction in woodwind instruments on a level beyond that of the beginning courses. Introduces more scales, more advanced work with embouchure, tone, tonguing. Suitable literature for the various instruments.

MAP 141 BRASS CLASS I 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the trumpet and horn; study of the literature appropriate for beginning class instruction.

MAP 142 BRASS CLASS II 1 cr.
Studies the fundamental principles and techniques necessary for playing and teaching the trombone, euphonium, and tuba; study of the literature appropriate for beginning class instruction.

MAP 143 ADVANCED BRASS CLASS 1 cr.
Instruction in brass instruments on a level beyond that of the beginning courses. Scales in various articulations and ranges, more advanced technical work and styles, suitable literature for the various instruments.

MAP 151 STRING CLASS I 1 cr.
Acquaints the non-string player with the basic elements of string instrument playing. Instruction in violin and viola, fundamentals of correct playing, and familiarity with problems of class instruction in typical elementary school string classes.

MAP 152 STRING CLASS II 1 cr.
Continuation of 151. Students specialize on cello, or bass. Presents keys up to four sharps and two flats with corresponding fingering problems. Introduces bass players to various positions, and cello players to extended second finger pattern. Introduces various staccato bowing patterns. Principles of vibrato presented.

MAP 153 ADVANCED STRING CLASS 1 cr.
Instruction in stringed instruments on a level beyond that of the beginning courses. Introduces scales in various positions, more advanced work with the various staccato and spiccato bowings. Suitable literature for the various instruments.

MAP 157 GUITAR CLASS I 1 cr.
Beginning study of the guitar. Functional use of the guitar in the music classroom. Accompanying singing.

MAP 158 GUITAR CLASS II 1 cr.
Continuation of 157. More advanced work in techniques and corresponding literature.

MAP 161 PERCUSSION CLASS 1 cr.
Studies the characteristics for the various percussion instruments; performance techniques: development of performing ability necessary to teach the percussion instruments at the elementary and secondary level of instruction.

MAP 163 ADVANCED PERCUSSION CLASS 1 cr.
Instruction in percussion instruments on a level beyond that of the beginning course. Introduces more advanced work with the various percussion instruments. Suitable literature for various instruments.

MAP 200 VOICE SECONDARY 2 cr.
Voice secondary - one-half hour lesson

MAP 210 PIANO SECONDARY 2 cr.
Piano secondary - one-half hour lesson

MAP 220 ORGAN SECONDARY 2 cr.
Organ secondary - one-half hour lesson

MAP 225 HARPSICHORD SECONDARY 2 cr.
Harpsichord secondary - one-half hour lesson

MAP 230 FLUTE SECONDARY 2 cr.
Flute secondary - one-half hour lesson

MAP 231 OBOE SECONDARY 2 cr.
Oboe secondary - one-half hour lesson

MAP 232 CLARINET SECONDARY 2 cr.
Clarinet secondary - one-half hour lesson

MAP 233 BASSOON SECONDARY 2 cr.
Bassoon secondary - one-half hour lesson.

MAP 234 SAXOPHONE SECONDARY 2 cr.
Saxophone secondary - one-half hour lesson

MAP 240 TRUMPET SECONDARY 2 cr.
Trumpet secondary - one-half hour lesson

MAP 241 HORN SECONDARY 2 cr.
Horn secondary - one-half hour lesson

MAP 242 TROMBONE SECONDARY 2 cr.
Trombone secondary - one-half hour lesson

MAP 243 EUPHONIUM SECONDARY 2 cr.
Euphonium secondary - one-half hour lesson

MAP 244 TUBA SECONDARY 2 cr.
Tuba secondary - one-half hour lesson

MAP 250 VIOLIN SECONDARY 2 cr.
Violin secondary - one-half hour lesson

MAP 251 VIOLA SECONDARY 2 cr.
Viola secondary - one-half hour lesson

MAP 252 CELLO SECONDARY 2 cr.
Cello secondary - one-half hour lesson

MAP 253 BASS SECONDARY 2 cr.
Bass secondary - one-half hour lesson

MAP 254 HARP SECONDARY 2 cr.
Harp secondary - one-half hour lesson

MAP 257 GUITAR SECONDARY 2 cr.
Guitar secondary - one-half hour lesson

MAP 260 PERCUSSION SECONDARY 2 cr.
Percussion secondary - one-half hour lesson

MAP 270 APPLIED MUSIC COMPOSITION 2 cr.
The study and application of composition techniques within the context of an individualized private lesson. New compositions will be developed and produced for public performance. Expertise in the composition of serious art music may be used in career musical capacities and in a graduate school of music. Prerequisite: Successful completion of Basic Music I-IV theory sequence and/or at the discretion of the instructor. May be repeated for a total of seven credits over multiple semesters.

MAP 300 VOICE 1 - 2 cr.
Voice - One-half hour lesson and one fifty-minute group studio class per week.

MAP 310 PIANO 1- 2 cr.
Piano - One-half hour of lesson and fifty-minute group studio class per week.

MAP 320 ORGAN 1- 2 cr.
Organ - One-half hour lesson and one fifty-minute group studio class per week.

MAP 325 HARPSICHORD 1 - 2 cr.
Harpsichord - One-half hour lesson and one fifty-minute group studio class per week.

MAP 330 FLUTE 1 - 2 cr.
Flute - One-half hour lesson and one fifty-minute group studio class per week.

MAP 331 OBOE 1- 2 cr.
Oboe - One-half hour lesson and one fifty-minute group studio class per week.

MAP 332 CLARINET 1- 2 cr.
Clarinet - One-half hour lesson and one fifty-minute group studio class per week.

MAP 333 BASSOON 1- 2 cr.
Bassoon - One-half hour lesson and one fifty-minute group studio class per week.

MAP 334 SAXOPHONE 1 - 2 cr.
Saxophone - One-half hour lesson and one fifty-minute group studio class per week.

MAP 340 TRUMPET 1 - 2 cr.
Trumpet - One-half hour lesson and one fifty-minute group studio class per week.

MAP 341 HORN 1- 2 cr.
Horn - One-half hour lesson and one fifty-minute group studio class per week.

MAP 342 TROMBONE 1 - 2 cr.
Trombone - One-half hour lesson and one fifty-minute group studio class per week.

MAP 343 EUPHONIUM 1- 2 cr.
Euphonium - One-half hour lesson and one fifty-minute group studio class per week.

MAP 344 TUBA 1- 2 cr.
Tuba - One-half hour lesson and one fifty-minute group studio class per week.

MAP 350 VIOLIN 1- 2 cr.
Violin - One-half hour lesson and one fifty-minute group studio class per week.

MAP 351 VIOLA 1- 2 cr.
Viola - One-half hour lesson and one fifty-minute group studio class per week.

MAP 352 CELLO 1- 2 cr.
Cello - One-half hour lesson and one fifty-minute group studio class per week.

MAP 353 BASS 1- 2 cr.
Bass - One-half hour lesson and one fifty-minute group studio class per week.

MAP 357 GUITAR 1- 2 cr.
Guitar - One-half hour lesson and one fifty-minute group studio class per week.

MAP 360 PERCUSSION 1- 2 cr.
Percussion - One-half hour lesson and one fifty-minute group studio class per week.

MAP 400 VOICE 3- 4 cr.
Voice - One-hour lesson and one fifty-minute group studio class per week.

MAP 410 PIANO 3- 4 cr.
Piano- One-hour lesson and one fifty-minute group studio class per week.

MAP 420 ORGAN 3- 4 cr.
Organ - 1 hour lesson and one fifty-minute group studio class per week.

MAP 425 HARPSICHORD 3- 4 cr.
Harpsichord - One-hour lesson and one fifty-minute group studio class per week.

MAP 430 FLUTE 3- 4 cr.
Flute - One-hour lesson and one fifty-minute group studio class per week.

MAP 431 OBOE 3- 4 cr.
Oboe - One-hour lesson and one fifty-minute group studio class per week.

MAP 432 CLARINET 3 - 4 cr.
Clarinet - One-hour lesson and one fifty-minute group studio class per week.

MAP 433 BASSOON 3 - 4 cr.
Bassoon - One-hour lesson and one fifty-minute group studio class per week.

MAP 434 SAXOPHONE 3 - 4 cr.
Saxophone - One-hour lesson and one fifty-minute group studio class per week.

MAP 440 TRUMPET 3 - 4 cr.
Trumpet - One-hour lesson and one fifty-minute group studio class per week.

MAP 441 HORN 3 - 4 cr.
Horn - One-hour lesson and one fifty-minute group studio class per week.

MAP 442 TROMBONE 3 - 4 cr.
Trombone - One-hour lesson and one fifty-minute group studio class per week.

MAP 443 EUPHONIUM 3 - 4 cr.
Euphonium - One-hour lesson and one fifty-minute group studio class per week.

MAP 444 TUBA 3 - 4 cr.
Tuba - One-hour lesson and one fifty-minute group studio classes per week.

MAP 450 VIOLIN 3 - 4 cr.
Violin - One-hour lesson and one fifty-minute group studio class per week.

MAP 451 VIOLA 3 - 4 cr.
Viola - One-hour lesson and one fifty-minute group studio class per week.

MAP 452 CELLO 3 - 4 cr.
Cello - One-hour lesson and one fifty-minute group studio class per week

MAP 453 BASS 3 - 4 cr.
Bass - One-hour lesson and one fifty-minute group studio class per week.

MAP 457 GUITAR 3 - 4 cr.
Guitar - One-hour lesson and one fifty-minute group studio class per week.

MAP 460 PERCUSSION 3 - 4 cr.
Percussion - One-hour lesson and one fifty-minute group studio class per week.

MAP 470 RECITAL 2 - 4 cr.
A formal public recital given in the major performing medium represents the culmination of study in the applied area.

MEDICAL TRANSCRIPTION

MT 100 MEDIAL TRANSCRIPTION I 4 cr.
This course introduces the student to the basics of medical transcription. Prerequisite: CD 100.

MT 101 DISEASE PROCESSES I 2 cr.
This course is the first course in a two-semester sequence, which surveys the fundamental nature of disease. It includes the study of common human diseases and conditions including etiology, signs and symptoms, diagnostic and treatment modalities, prognosis and prevention as they relate to medical transcription.

MT 102 MEDICAL TERMINOLOGY FOR TRANSCRIPTION 2 cr.
This course builds on the concepts introduced in CD 100. It emphasizes the vocabulary related to various body systems. Prerequisites: CD 100 and MT 100.

MT 103 PROFESSIONAL DEVELOPMENT AND MEDICAL LEGAL ETHICAL ISSUES 3 cr.
This course introduces students to the legal, ethical and professional aspects of medical transcription. Regulatory standards, patient confidentiality, documentation, copyright law and patient and employee rights are explored. Prerequisite: MT 100.

MT 104 TECHNOLOGY AND HEALTHCARE RECORDS 3 cr.
In this course, the student learns about technology associated with medical transcription. Security issues and confidentiality issues related to the patient record are explored. Additionally, the student learns to research healthcare topics electronically.

Technological standards and trends in the healthcare industry are evaluated. Prerequisite: MT 100.

MT 200 MEDICAL TRANSCRIPTION II 4 cr.
In this course students apply the principles learned in MT 100 to specific body systems using case studies. Special consideration is given to the patient chart. By the end of the course, students will be able to transcribe medical histories, physical examinations, patient discharge summaries, and other agency reports. Prerequisite: MT 100.

MT 201 DISEASE PROCESSES II 2 cr.
This course is the second course in a two-semester sequence, which surveys the fundamental nature of disease. It includes the study of common human diseases and conditions including etiology, signs and symptoms, diagnostic and treatment modalities, prognoses and prevention as they relate to medical transcription. Prerequisite: MT 100.

MT 202 MEDICAL TRANSCRIPTION PRACTICUM 6 cr.
Lecture. Prerequisite: MT 200. Co-requisite: CD 220.

MUSIC - ENSEMBLE

MEN 000 RECITAL ATTENDANCE 0 cr.
Recital attendance is designed to 1) place students in formal concerts for their peers on Thursdays, 2) have students hear professional performances during the semester, and 3) meet as a studio master class on Tuesdays.

MEN 300 CONCERT CHOIR 1 cr.
A highly select choir of forty-eight voices. Presents a concert each semester and joins with other choruses for choral festivals. Performs choral literature spanning five centuries and in a variety of languages. The choir is a touring ensemble. Audition required.

MEN 301 FESTIVAL CHORUS 1 cr.
A large mixed chorus providing opportunity to experience great choral literature. Students present a concert each semester and join other choruses for choral festivals.

MEN 302 OPERA WORKSHOP 1 cr.
The study and performance of operatic and musical comedy scenes chosen according to the abilities of the students in the workshop. Full-scale musical comedy productions are done in conjunction with the department of speech, communications and theater. Under supervision, students perform in, musically direct, coach, accompany, conduct, and stage-direct various scenes.

MEN 303 MANSFIELDIANS 1 cr.
A vocal jazz/madrigal ensemble which specializes in singing jazz, madrigal, and folk music. This group is available for performance in public schools, service agencies, and alumni functions. Audition required.

MEN 304 CHAMBER SINGERS 1 cr.
A vocal chamber ensemble of twelve to sixteen singers. Specializes in repertoire of the 16th century Madrigal, 19th & 20th century part-song, and vocal jazz. Concerts given at the university and off campus by request. Audition required.

MEN 305 VOCAL ENSEMBLE 1 cr.
Studies and performs representative works for various vocal combinations.

MEN 310 PIANO ENSEMBLE 1 cr.
Studies and performs two-piano and four-hand literature, chamber music, sonatas, and trios, including accompaniment of standard instrumental and vocal literature.

MEN 330 CONCERT WIND ENSEMBLE 1 cr.
A select ensemble of wind and percussion players. Concerts given on and off campus. Membership is open to all university students by audition.

MEN 331 MOUNTIE MARCHING BAND 1 cr.
Performs at all home and out-of-town football games and hosts the Mansfield University band day, as well as periodic appearances at professional games, special functions, and international events.

MEN 332 SYMPHONIC BAND 1 cr.
Studies a wide variety of band literature and presents concerts on campus.

MEN 333 WOODWIND ENSEMBLE 1 cr.
Study and performance of representative works for various woodwind ensembles. One woodwind quintet and one sax quintet take an annual tour.

MEN 334 BRASS ENSEMBLE 1 cr.
Study and performance of representative works for various combinations of brass instruments.

MEN 335 CONCERT JAZZ BAND 1 cr.
Performs on-campus several times each year, as well as, touring and performing concerts off-campus. Membership by audition.

MEN 336 SMALL JAZZ AND COMMERCIAL ENSEMBLES 1 cr.
Provides the opportunity for students to gain supervised experience in performing jazz and other current professional music idioms in small groups. Dual listed with 536.

MEN 350 ORCHESTRA 1 cr.
The College-Community Symphony provides an opportunity to participate in the performance of standard symphonic literature. Our orchestra presents a concert each semester, accompanies outstanding student soloists, participates in the biennial choral festival, and is a touring ensemble.

MEN 351 STRING ENSEMBLE 1 cr.
Study and performance of standard literature for string ensembles.

MEN 357 GUITAR ENSEMBLE 1 cr.
Introduction to the technique and repertoire of guitar ensemble music and ensemble performance skills.

MEN 360 PERCUSSION ENSEMBLE 1 cr.
Study and performance of representative works for all combinations of percussion instruments.

MUSIC - THERAPY

MTH 171 THERAPY ORIENTATION 3 cr.
Studies the nature of music therapy and the therapeutic process. Students will gain a better understanding of the clients served and the types of treatment available.

MTH 210 CLINICAL INTEGRATION I 1 cr.
Students will participate in weekly laboratory experiences on campus and in a clinical setting. Written assignments and a workshop experience are required. Prerequisite: MAP 157, MTH 171, and SPE 101.

MTH 211 CLINICAL INTEGRATION II 1 cr.
Students will participate in weekly lecture/discussion sessions and clinical experiences. Written assignments and a workshop experience are required.

MTH 211L CLINICAL ORIENTATION LABORATORY 1 cr.
Clinical Orientation laboratory. Prerequisite: MTH 171.

MTH 372 PSYCHO-SOCIAL FOUNDATIONS OF MUSIC 3 cr.
Studies the functions of music in society and the psychological attributes of music. Students gain a better understanding of the effects and properties of music in human life. A paper and an oral report are required.

MTH 410 ADVANCED CLINICAL INTEGRATION I 1 - 2 cr.
Provides preparation for advanced clinical work with a wide range of client populations. Provides relevant academic preparation and opportunities to develop clinical skills and to deepen personal awareness. A workshop experience is required. May be taken for 1 or 2 credits, but no more than 4 credits. Prerequisite: MTH 171, 210,. 211, and 211L.

MTH 411 ADVANCED CLINICAL INTEGRATION II 1 - 2 cr.
Provides preparation for advanced clinical work with a wide range of client populations. Provides relevant academic preparation and opportunities to develop clinical skills and to deepen personal awareness. A workshop experience is required. May be taken for 1 or 2 credits not to exceed 4 credits. Prerequisite: MTH 171, 210, 211, and 211L.

MTH 471 INFLUENCE OF MUSIC ON BEHAVIOR 3 cr.
A survey of research in music therapy with a focus on ways music can be employed in the therapeutic process to change problem behaviors. A paper is required.

MTH 472 MUSIC IN THERAPY 3 cr.
Studies the relationships of music therapy to institutional organization and administration, as well as, other therapeutic disciplines. A project/paper is required.

MTH 475 INTERNSHIP 2 cr.
A practical application of theories of uses of music in therapeutic settings. Choices such as a hospital, state school, correctional facility, public school, special education, and private school may be available.

MUSIC

MU 101 INTRODUCTION TO MUSIC 3 cr.
Studies principal vocal and instrumental forms and media. Surveys important compositions from the early Baroque to the present.

MU 102 FUNDAMENTALS OF MUSIC 3 cr.
The fundamentals of music theory (melody, rhythm, harmony, form, and timbre) are introduced in a "hands-on" practical manner. Activities include analysis of music examples, composition, guided listening, performing, and keyboard theory lab. Music fundamentals will be approached from the standpoints of the listener, the performer, and the composer.

MU 141 INTRODUCTION TO MUSIC EDUCATION 1 cr.
Provides an overview of music education and an acquaintance with the process of teaching and learning music in the elementary and secondary schools.

MU 151 EURYTHMICS I 1 cr.
Laboratory experience in rhythmic movement to develop skill and greater perception of common rhythms. The Jacques Dalcroze philosophy is followed.

MU 201 INTRODUCTION TO JAZZ 3 cr.
Studies the evolutionary history of jazz from the earliest African and European influ-

ences to the present. Emphasizes listening experiences and develops an awareness of the unique role of jazz in American culture.

MU 205 WOMEN IN MUSIC 3 cr.
The study of women composers and performers through reading and recordings, including western and non-western music traditions.

MU 211 BASIC MUSIC I 3 cr.
Development of vocabulary; study of modes, scales, harmonic rhythmic, and composition techniques. Supportive examples selected from all periods of music. Sight singing and dictation. May be repeated for a total of six credits.

MU 212 BASIC MUSIC II 3 cr.
Continuation of 211. Analysis and creative projects involving Baroque practices of figured bass, functional harmony, modulation, and altered chords. Prerequisite: MU 211. May be repeated for a total of six credits.

MU 220 WESTERN MUSIC UNTIL 1750 3 cr.
Surveys Western European musical literature and styles beginning with the early Christian era through the Renaissance and Baroque.

MU 221 CLASSIC AND ROMANTIC MUSIC 2 - 3 cr.
Surveys Western European musical literature and musical styles of the Classic and Romantic Eras. Prerequisite: MU 220.

MU 222 POST ROMANTIC AND 20TH CENTURY MUSIC 2 - 3_ cr.
Surveys Western European and American musical literature and musical styles beginning with the Post-Romantic Era through main currents of 20th-century composition. May be taken for 2 or 3 credits only. Prerequisite: MU 221 or permission of instructor.

MU 250 BASIC CONDUCTING 1 cr.
Lecture and laboratory experiences with basic conducting techniques. Special emphasis on speaking and moving to rhythms. Students conduct class as a music ensemble.

MU 261 FUNDAMENTALS OF JAZZ IMPROVISATION I 2 cr.
Beginning course in jazz improvisation. Study of fundamental chord types and appropriate scales/modes. Concentration will be on the blues form and diatonic harmony in major keys. Focus in on generating melodic lines in the jazz idiom based on goal notes, i.e. chord tones.

MU 262 FUNDAMENTALS OF JAZZ IMPROVISATION II 2 cr.
Continuation of 261. Study of more complex chord extensions and/or alterations and appropriate scales/modes. Concentration will be on the II-V-I progression in both major and minor keys. Focus will again be on generating melodic lines in the jazz idiom based on goal notes, i.e. chord tones.

MU 301 WORLD MUSICS 3 cr.
Music of various continents are explored with particular emphasis on each tradition's cultural function. Provides the fundamental research and comparative skills needed to understand and listen to selected non-western music. Includes discussions of how Western art and popular music incorporate these styles.

MU 311 BASIC MUSIC III 3 cr.
Studies more elaborate harmonic and formal structures. Examines macro-micro elements in relation to performance practices. Creative and analytic projects based on fugal style, rondo and sonata form, and the art song. Prerequisite: MU 212.

MU 312 BASIC MUSIC IV 3 cr.
Examines contemporary techniques. Examples selected from Debussy to post-1950.

Creative projects involving the whole tones and twelve-tone scales, and aleatoric and electronic compositions. Sight singing and dictation to include atonal pitch sets. Prerequisite: MU 311.

MU 313 ELECTRONIC MUSIC I 2 cr.
Survey of electroacoustic music technology with emphasis on MIDI applications. Provides hands-on experience with computer-based sequencing and music notation. Prerequisite: MU 212.

MU 314 COMPUTER-BASED MUSIC NOTATION 1 cr.
This course provides hands-on instruction in computer-based music notation.

MU 315 ORCHESTRATION 3 cr.
Designed to provide the basic skills of notation, parts extraction, transposing and arranging, in addition to information on instrumental ranges, qualities, and usages. Strings, woodwinds, and brass are treated as distinct families. Provides a fluent understanding of skills and concepts and, as a by-product, the student will become more aware of score reading and audio awareness. Good manuscript habits will make it possible for musicians to read new music and students will be able to use these skills in graduate school. Prerequisite: MU 312 or permission of instructor.

MU 317 KEYBOARD SKILLS I 1 cr.
Intensive work in accompanying melodies in major and minor keys, with beginning work in modal harmony. Development of varied accompanimental styles, improvisation, command of functional harmony, "playing by ear", transposition, sight reading melodies from elementary music, and harmonizing these melodies at sight. Prerequisite: MU 212.

MU 323 STUDIES IN KEYBOARD LITERATURE 3 cr.
Study of keyboard literature from the late Renaissance to the present day.

MU 340 TEACHING MUSIC 3 cr.
Designed to enable elementary education majors to integrate the teaching of music into the mainstream of the elementary school curriculum. Fundamentals of music, musical characteristics of children, concept development, and musical activities appropriate for the age group will be stressed. Includes observation/participation in the local elementary school.

MU 341 MUSIC IN THE ELEMENTARY SCHOOL 2 cr.
Studies the developmental and musical characteristics of children ages 5-11. Emphasizes teaching the elements of music through musical activities appropriate for this age group. Includes a survey of current materials as well as observation/participation in the local elementary school. Particular attention is given to curricular development for vocal and general music classes. Prerequisite: MU 141, 212 and five hours of pre-professional experience.

MU 342 MUSIC IN THE SECONDARY SCHOOL 2 cr.
Studies the developmental and musical characteristics of students ages 12-18. Emphasizes teaching the elements of music through musical experiences appropriate for this age group. Includes a survey of current materials as well as observation/participation in the local secondary school. Particular attention is given to classroom management, students with exceptionalities of all ages, curriculum development in general music classes, elective classes, and an overall philosophy of music education. Prerequisite: MU 341 and five hours of pre-professional experience.

MU 343 INSTRUMENTAL MUSIC IN PUBLIC SCHOOLS 2 cr.
Study of a suitable instrumental program for a public school system. Particular attention

to class teaching techniques of the various instruments. Problems of organization and administration of such a program; survey and examination of the available instructional material. Prerequisite: MU 141, 212, 342 and five hours pre-professional experience.

MU 344 VOCAL-CHORAL MUSIC IN THE PUBLIC SCHOOLS 2 cr.
Study of a suitable choral program for a public school system. The course emphasizes the teaching of voice and ensemble singing through the developmental stages of young singers. Students observe and participate in vocal/choral music-making with elementary, middle, and high school choirs. Prerequisite: MU 212, 141, 342, 350.

MU 350 CHORAL CONDUCTING 2 cr.
Prepares the future music educator to organize, teach, and conduct choral organizations of varying levels of achievement, particularly junior and senior high school age groups. Experience in conducting the class as a chorus is integral to the course. Prerequisite: MU 212.

MU 351 INSTRUMENTAL CONDUCTING 2 cr.
Prepares for conducting instrumental groups. Emphasis on communicative and control techniques of conducting and rehearsal and performance techniques. Experience through conducting a laboratory band and orchestra. Videotaping is utilized extensively with each individual. Prerequisite: MU 212, MU 250.

MU 352 DICTION I FOR SINGERS 2 cr.
This course will use the International Phonetic Alphabet (IPA) to present a systematic approach to the pronunciation of vocal literature in Italian, Latin, and German, examining those elements of pronunciation which must be modified from the spoken language into the singing language. The course will require solo and group preparation of songs in each language, including precise translations for foreign language literature and will provide for class criticism and discussion of performance in an effort to develop critical hearing.

MU 353 DICTION II FOR SINGERS 2 cr.
This course will use the International Phonetic Alphabet to present a systematic approach to the pronunciation of vocal literature in English and French, examining those elements of pronunciation which must be modified from the spoken language into the singing language. The course will require solo and group preparation of songs in each language, including precise translations for foreign language literature and will provide for class criticism and discussion of performance in an effort to develop critical hearing.

MU 361 JAZZ ARRANGING I 2 cr.
A course in the study of the fundamentals of jazz arranging. Includes standard formats and part notation; appropriate ranges and transpositions of common jazz instruments and arranging for combos up to four horns and rhythm section.

MU 362 JAZZ ARRANGING II 2 cr.
A more advanced course in the styles and techniques of arranging for modern jazz ensembles of all sizes.

MU 363 JAZZ ENSEMBLE MATERIALS AND TECHNIQUES 2 cr.
Acquaints prospective directors of secondary school performing jazz ensembles with materials and techniques appropriate to the idiom. Highly useful to students interested in amateur or professional jazz ensemble performance outside of educational institutions. Dual listed with 563.

MU 400 STUDENT TEACHING 12 cr.
(By arrangement). Opportunity to apply knowledge and skills acquired in professional

preparation. Accomplished by a field experience in university established centers under supervision of qualified cooperating teachers. Observations and conferences are scheduled by the departmental supervisor. Prerequisite: 2.5 QPA.

MU 410 FORMS AND ANALYSIS 3 cr.
Various methods of musical analysis are studied and applied to compositions representative of various periods of music history. Prerequisite: MU 312.

MU 411 COUNTERPOINT 3 cr.
Studies the contrapuntal style of the late 17th and early 18th centuries. Prerequisite: MU 312.

MU 417 COMPOSITION 3 cr.
Contemporary techniques of musical composition; emphasis on creative work. Prerequisite: MU 312 or permission of instructor.

MU 420 SONG LITERATURE 3 cr.
Studies development of monophonic song from the days of the troubadours and troupers to the present time. Emphasizes especially the history of the German lied, the French chanson or melody, and solo song in the British Isles and the United States. Also includes the major composers of song in the Slavic countries, Spain, South America, and Scandinavia.

MU 421 CHORAL LITERATURE 2 cr.
The study of choral repertoire from each historical period including literature from the spiritual, folk, and jazz idioms. Course will include music for choirs from elementary school through collegiate levels as well as issues regarding performance practice, vocal warm-ups, and rehearsal techniques. Prerequisites MU 350, MU 351.

MU 427 CONTEMPORARY MUSIC 3 cr.
Surveys the styles, forms, and musical techniques of contemporary music.

MU 428 AMERICAN MUSIC 3 cr.
Historical background and development of music in the United States from colonial times to the present. Studies the principal composers and their music. Reading, research, and listening emphasized.

MU 429 ADVANCED STUDIES MUSIC LITERATURE 3 cr.
Intensive study of selected choral, solo, chamber, and orchestral masterpieces: emphasis on formal and stylistic developments. Prerequisite: MU 221, 222, 321, and 322.

MU 431 THE SYMPHONY 3 cr.
Studies orchestral music from its beginning. The Mannheim composers, the Viennese classics, the Romanticists, and contemporary composers. Works will be analyzed and their historical, cultural, and philosophical backgrounds discussed.

MU 432 THE CONCERTO 3 cr.
Emphasizes the development of the concerto and the stylistic contributions of the great masters. Representative works will be studied in score and recordings.

MU 437 WIND BAND LITERATURE 2 cr.
The study of wind band literature considered standard in the performance repertoire at the high school level with an emphasis on developing the skills to recognize works that are artfully crafted. Prerequisites: MU 315 and MU 351.

MU 458 BASIC WOODWIND REPAIR 2 cr.
Designed to give the student the knowledge and skills needed to repair the majority of problems encountered on woodwind instruments.

MU 459 MARCHING BAND TECHNIQUES 2 cr.
Detailed study of the marching band including philosophy, styles, charting, music, materials, instrumentation, administration, and contemporary techniques.

MU 471 VOCAL PEDAGOGY 2 cr.
A study of the teaching of singing on an individual or group basis. Study of the five elements of singing: respiration, phonation, resonation, articulation, and interpretation. An examination of various approaches to voice teaching, including a study of books on voice pedagogy. May be taken for 2 or 3 credits only. Prerequisite: permission of instructor. Dual listed with 571.

MU 472 PIANO PEDAGOGY 2 cr.
Studies procedures for class and individual instruction: emphasizes the ear approach as the basis for reading, true musical perception and intelligent understanding of the printed page. Examines and evaluates materials suitable for the first years of piano study. Prerequisite: permission of instructor.

MU 473 PRACTICUM IN PIANO TEACHING 1 cr.
Introduces class and individual instruction techniques to be used with young beginners. Prerequisite: MU 472.

MU 474 STRING PEDAGOGY 2 cr.
Evaluates string methods and materials, gives hands-on practice on feedback on string lesions, grades and organizes string music literature, present history of string teaching and offers a repertory of teaching techniques and routines. Prerequisites MAP 151, MAP 152.

MU 475 WOODWIND PEDAGOGY 2 cr.
Acquaints students with the woodwind instruments and their solo and ensemble literature. Lecture, demonstration, films, tapes, and recordings presented for flute, oboe, bassoon, clarinet, and saxophone.

MU 476 BRASS PEDAGOGY 2 cr.
Studies the techniques, teaching problems, teaching materials, history, and literature related to the brass instruments.

MU 477 PERCUSSION PEDAGOGY 2 cr.
Studies teaching techniques and associated literature of the various percussion instruments.

MU 481 SURVEY OF THE BUSINESS OF MUSIC 3 cr.
Presents an overall view of music merchandising, describes the various types of retailing, and acquaints the student with the administration, advertising, marketing processes, and consumer orientation necessary for the education of a person in the retail-wholesale aspects of the music industry.

MU 489 INTERNSHIP: MUSIC MERCHANDISING 12 cr.
Provides experiences in the following: (a) a "hands-on experience", (b) an opportunity to observe professionals in the field, (c) a broadening and understanding of problems and careers in the field, (d) an educationally directed field instruction, (e) an opportunity to apply knowledge, theory, and understanding in a job situation, and (f) an opportunity to develop marketable skills.

MU 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

NURSING

NUR 170 INTRODUCTION TO THE HEALTH SCIENCES 1 CR.
This course introduces students to the health professions. It explores the evolution of different health care roles with an introduction to legal, ethical, and professional issues. Basic communication skills are presented.

NUR 260 CONCEPTS OF PROFESSIONAL NURSING 3 cr.
A seminar designed to introduce RN students to the theoretical and philosophical bases underlying professional nursing practice. Role theory with an emphasis on the development of the professional self-concept will be explored. Open to RN students only.

NUR 261 HEALTH ASSESSMENT ACROSS THE LIFE SPAN 3 cr.
This course is designed to assist the RN to BSN student develop the skills necessary to perform health assessments. The course incorporates the principles of interviewing, comprehensive health history, sequential physical assessment, and analysis and documentation of collected data. Prerequisites: NUR 260 or instructor permission.

NUR 270 INTRODUCTION TO PROFESSIONAL NURSING I 3 crs.
This course provides theory and skills foundation for professional nursing. The role of the professional nurse is explored. The Nursing process, health care needs of individuals, and health assessment are central concepts. The laboratory component concentrates on acquisition of professional nursing skills. Prerequisite: NUR 170.

NUR 271 INTRODUCTION TO PROFESSIONAL NURSING II 4 crs.
This course builds on the concepts introduced in NUR 170 and 270. Course content focuses on application of the nursing process to human needs and responses to illness, and human development. The history of nursing and pharmacological computations are also included. Students have their first clinical experience in this course. Prerequisites: NUR 170 and NUR 270.

NUR 361 INTRODUCTION TO NURSING RESEARCH 2 crs.
This course provides an overview of the steps in the research process, and the ethical and legal implications involved in scientific inquiry. Emphasis is on knowledge and methods required to critically evaluate research studies and reports. Prerequisites: NUR 270 and 271 or NUR 260; MA 125; or instructor permission.

NUR 370 NURSING CARE OF THE ADULT CLIENT 8 cr.
Explores the use of the nursing process with adult clients as they encounter actual and potential stressors along with the wellness-illness continuum. The clinical lab provides the student with opportunities to apply the nursing process at all levels of prevention and to observe various roles of the professional nurse within the health care system. Prerequisite: BSC 121, BSC 122, BSC 271 (or BI 371), CHM 110, NUR 270 and NUR 271.

NUR 371 NURSING CARE OF CHILDBEARING AND CHILD REARING FAMILIES 8 cr.
Explores the use of the nursing process with individual and family clients. The focus of the role of the nurse in meeting the health care needs of childbearing and child rearing families at all levels of prevention and in a variety of settings. The course content focuses on growth and development, family issues and assessment, the change process, and stressors for and reaction of individuals and families. Prerequisite: BSC 121, BSC 122, BSC 271 (or BI 371), CHM 110, NUR 270 and NUR 271.

NUR 391 THE PATHOPHYSIOLOGIC AND PHARMACOLOGIC BASES OF NURSING II 3 crs.
This course examines pathophysiological concepts of altered health states of selected body systems along with appropriate pharmacological management and nursing implications. Includes alterations in cell function, metabolism, stress and adaptation, inflammation, immunity, oxygenation, and cardiac function. Prerequisites: NUR 270, NUR 271, BSC 121, BSC 122 and BSC 271 or BI 371.

NUR 392 THE PATHOPHYSIOLOGIC AND PHARMACOLOGIC BASES OF NURSING II 3 crs.
This course examines pathophysiological concepts of altered health states of selected body systems along with appropriate pharmacological management and nursing implications. Includes alterations in respiratory function, fluids and electrolytes, renal function, gastrointestinal function, endocrine function, and neurological function. Prerequisites: NUR 270, NUR 271, BSC 121, BSC 122, BSC 271 or BI 371.

NUR 402 WOMEN'S HEALTH ISSUES 3 cr.
Designed to explore and analyze a wide range of women's health issues from a multi disciplinary perspective. It is presented in a seminar format utilizing feminist pedagogy. A high level of student participation is expected.

NUR 430 COMMUNICATIONS IN NURSING 3 cr.
Provides both theory and classroom experiences with communications in nursing which will support, reinforce, and expand on concepts from previous courses. The acquisition of knowledge and the development of skills, which will assist one in becoming more effective in the client-nurse relationship, are emphasized. Verbal and non-verbal communication techniques, problem solving, empathy, self-disclosure, confrontation, relaxation, and responsible/assertive communications are some of the topics are examined. Prerequisite: COM 101, NUR 270 and NUR 271.

NUR 433 HEALTH PROMOTION AND DISEASE PREVENTION STRATEGIES 3 cr.
An interdisciplinary, international investigation of health promotion taught from the perspective of various disciplines with an emphasis on issues of nutrition, exercise, health behaviors and motivational theory. It is designed to familiarize students with implementing strategies for health promotion and disease prevention on the personal and community level. Active participation by the student in a health promotion project will be required.

NUR 454 GERONTICS/NORMAL AGING 3 cr.
Provides both theoretical content and interaction with the well-elderly. Assessing and assisting the aging to maintain wellness will be the major focus. Prerequisite: NUR 270, 271 and SOC 101

NUR 460 CURRENT ISSUES IN PROFESSIONAL NURSING 3 cr.
A seminar which examines current trends, controversies, questions, and dilemmas of professional nursing. The influence of political, ethical/legal, economic, and societal aspects on nursing practice and education are explored. Prerequisite: junior level nursing courses.

NUR 471 COMMUNITY HEALTH NURSING 6 cr.
Explores the scope of community health nursing considering the multiple frameworks of nursing theory and process, family theory and practice, and public health principles. Emphasis is placed on studying the relationships between individual, family, and community health care needs. Prerequisite: junior level nursing courses

NUR 472 MENTAL HEALTH NURSING 6 cr.
Focuses on the mental health concepts relative to the nursing care of clients. The nursing process is examined and applied primarily with individuals, but also includes families, groups, and communities and takes place in a variety of settings. Emphasis is placed upon the nurse's role of collaboration with other health care professionals in meeting the health care needs of clients at all levels of prevention. Prerequisite: junior level nursing courses

NUR 477 PATHOPHYSIOLOGICAL BASIS OF NURSING PRACTICE 3 cr.
Examines the major pathophysiological concepts associated with altered states of health. Etiology, pathogenesis and clinical manifestations are used to study common disease processes. The concepts learned in this course are relevant to professional nursing practice. Prerequisite: BSC 121, 122, NUR 270 and 271. This course will not be offered after Spring 2000.

NUR 480 LEADERSHIP AND MANAGEMENT IN NURSING 3 cr.
Introduces the student to the theoretical foundation for the practice of independent and interdependent nursing by discussing current leadership and management concepts and their relevance to professional nursing practice. Prerequisite: junior level nursing courses.

NUR 485 FAMILY NURSING 3 cr.
The concept of family is studied and analyzed in terms of both health and illness. This course emphasizes the nursing process as it applies to the family unit. Students will use the Betty Newman Nursing Model to study selected families. Prerequisite: NUR 271 or 260; NUR 370 or 371.

NUR 490 CARE OF THE CLIENT WITH MULTISYSTEM STRESSORS 8 crs.
Advanced concepts of acute care nursing are applied to complex health problems in clients with multisystem stressors. Prerequisites: NUR 370, NUR 371, NUR 391 and NUR 392.

NUR 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

PHILOSOPHY

PHL 191 ETHICAL ISSUES IN ALLIED HEALTH CARE 3 cr.
Especially designed for individuals pursuing careers in respiratory therapy and radiology technology. Topics include informed consent, paternalism, professional accountability, access to professional services, policy implications and the control of technology, and the benefits of health-care practices. May not be used as a substitute in the Nursing Program for PHL 380; not a General Education Humanities course.

***PHL 201 INTRODUCTION TO PHILOSOPHY 3 cr.**
Examines the basic foundational beliefs in the religious, scientific, ethical, and political dimensions of life. Exercises the student's ability to identify his/her own basic beliefs and subject these to critical evaluation. Examples of issues discussed are whether ethical values are relative, the existence of God, the nature of justice, and human freedom.

***PHL 202 CONTEMPORARY MORAL PROBLEMS 3 cr.**
Analyzes moral arguments pertaining to difficult contemporary issues, with emphasis on clarifying and evaluating these. Discussion subjects include: abortion, euthanasia, the

moral status of animals, the environment, the rights of women and minorities, censorship and pornography, etc. Course goal is to enable the student to assess the strengths and weaknesses of the various positions on each issue. PHL 202 is suitable as an entry level course in Philosophy.

***PHL 230 INTRODUCTION TO LOGIC 3 cr.**
Studies the basic principles of deductive and inductive thinking. Includes informal as well as formal logic. Syllogistic reasoning and elementary symbolic logic may be introduced. Fallacies in advertising, statistical arguments, political campaigns, and everyday speech are examined.

***PHL 259 PHILOSOPHY OF RELIGION 3 cr.**
Analyzes the validity of various proofs of God's existence. Also examines religious language, the difference between faith and reason, the question of religious authority, and the reasonableness of the religious lifestyle. Prerequisite: PHL 201, 202 or permission of instructor.

***PHL 300 PHILOSOPHY OF THE ARTS 3 cr.**
A detailed survey of both classical and modern aesthetic theories along with a criticism of each. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 305 PHILOSOPHY AND FILM 3 cr.
Aesthetic, ethical and epistemological issues surrounding the moving image. Topics include: realism, neo-realism, the new wave, feminism and the influence of existential and Marxist philosophies on cinematic theory. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 310 SOCIAL AND POLITICAL PHILOSOPHY 3 cr.
An analysis of philosophical concepts and arguments presupposed in social and political discourse. Topics include: liberty and its limits, human rights, economic and social justice, the nature of political obligation and disobedience. Emphasis is on evaluating philosophical theories from both contemporary and historical sources: Prerequisite: PHL 201, 202 or permission of instructor.

PHL 316 ENVIRONMENTAL ETHICS 3 cr.
An analysis of philosophical and ethical arguments involving environmental issues. Topics include the nature of rights, models of normative decision-making, and case studies. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 320 PHILOSOPHY OF LAW 3 cr.
An analysis of philosophical concepts and arguments presupposed in legal discourse and reasoning. Topics will include: the nature of law and legal decision making; theories of justice, privacy, responsibility and punishment. Emphasis is on examining specific legal cases from both contemporary and historical sources. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 330 EASTERN APPROACHES TO REALITY 3 cr.
An examination of the philosophical perspective of the Eastern mind as exhibited in Hinduism, Buddhism, Taoism, Confucianism, Zen Buddhism. Primary focus is on the difference between the Eastern and Western modes of looking at the world. Prerequisite: PHL 201, 202 or permission of instructor.

***PHL 340 ETHICS 3 cr.**
Examines how to make rational decisions in situations with a moral dimension. Examines traditional and contemporary applied problems in ethics, e.g. sexual morality, cheating. Examines the moral implications of various lifestyles. Course goal is to assist

students in developing the ability to function as morally autonomous persons. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 345 AMERICAN PHILOSOPHY 3 cr.
Examines the main movements in American thought, especially the pragmatic. Course focus is on the relation between American philosophy and other aspects of the American experience and character. Classical and contemporary figures are treated. Examines specifically American thought outside of academic philosophy, e.g. in economics, literature, and psychology. Prerequisites: PHL 201, 202 or permission of instructor.

PHL 350 THE CONCEPT OF MIND 3 cr.
Investigates various philosophical theories concerning the nature of mind. Topics include: the possibility of artificial intelligence, the nature of consciousness, emotion, and imagination, dreaming, mind-brain identity, the concept of the unconscious, animal intelligence, the mind as program, and human freedom. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 360 THE CONCEPT OF KNOWLEDGE 3 cr.
An examination of some philosophical concepts and arguments presupposed in discourse about knowledge. Topics include: the possibility that we do not know anything; problems of perception and illusion; problems of evidence acquisition; the nature of scientific knowledge; skepticism; astrology and religion; recent research in cognitive science. Major philosophical theories from both contemporary and historical sources are utilized. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 365 SCIENCE AND VALUES 3 cr.
Examines problems raised by science and technology. Topics will include: the ethics of experimentation; racism and sexism in science; the limits to technological growth; ecological and nuclear disaster; creationism versus evolutionism; ugliness and beauty in a technological environment. This course is geared to both specialists and non-specialists in philosophy or science. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 380 HEALTH CARE ETHICS 3 cr.
An examination of the arguments designed to provide solutions to moral problems commonly faced by health care professionals. Topics include: lies to the sick and dying; abortion; euthanasia, privacy and confidentiality, paternalism, and moral theory.

PHL 390 EXISTENTIALISM 3 cr.
Analyzes this twentieth-century movement which emphasizes human uniqueness and value. Existential themes include freedom, commitment, self-determination, and authenticity. Major philosophers considered are Keirkegaard, Nietzsche, Heidegger, and Sartre. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 420 CLASSICAL GREEK PHILOSOPHY 3 cr.
A serious investigation of Western philosophy from the beginning through Aristotle. The relationships between philosophy and other areas of Greek culture are examined. Extended treatments of the pre-Socratics, Plato, and Aristotle are presented. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 422 TOPICS IN MODERN PHILOSOPHY 3 cr.
Includes study of the philosophical thought of the early scientists whose investigations culminated in the contemporary scientific method. Philosophers of the 17th and 18th centuries are examined, from Thomas Hobbes to Immanuel Kant. Problem areas of this period are: the mind-body relationship, the possibility of knowledge, perception, and the status of ideas. Prerequisite: PHL 201, 202 or permission of instructor.

PHL 423 TWENTIETH CENTURY PHILOSOPHY 3 cr.
Analysis of the defining features of major philosophical movements in the twentieth century. The movements which may be examined include linguistic analysis, logical positivism, pragmatism, deconstruction, philosophy of mind, postmodernism, postcolonialism,, and feminism. Prerequisite: PHL 201, 202 or permission of instructor.
PHL 450 INTERNSHIP 3-12 cr.
Information can be obtained from Philosophy chairperson. NO MORE THAN SIX CREDITS COUNT TOWARD THE PHILOSOPHY MAJOR.

PHL 490 SEMINAR 1 - 3 cr.
A supervised investigation of a specialized problem in philosophy or into the writings of a specific philosopher or philosophic movement. Prerequisite: PHL 201, 202 or permission of the instructor. May be taken for 1 through 3 credits.

PHL 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

PHYSICS

***PHY 151 CONCEPTUAL PHYSICS I 4 cr.**
An introduction to both classical and modern physics without the use of calculus. Designed to enable the student to appreciate the role of physics in society.

***PHY 152 CONCEPTUAL PHYSICS II 4 cr.**
Continuation of PHY 151.

PHY 165 PHYSICS FOR THE ALLIED HEALTH SCIENCES 3 cr.
Designed to give students in the Allied Health Sciences the physics background needed for their professional work. Selection of material is based on the appropriateness of the life sciences without limiting basic concepts found in all introductory physics courses.

PHY 180 QUANTITATIVE METHODS FOR THE PHYSICAL SCIENCES 3 cr.
Introduction to the application of mathematical analysis to physical situations. Problem solving using algebraic, statistical, calculus, and computer methods. Corequisite: MA 231.

***PHY 191 PHYSICS I 4 cr.**
A one-year sequential calculus physics course discussing classical mechanics, fluids, thermodynamics, classical electricity and magnetism, optics and waves, modern physics. Application of physics to life science is made in problem selection and laboratory experimentation. Corequisite: MA 231.

***PHY 192 PHYSICS II 4 cr.**
Continuation of PHY 191. Prerequisite: PHY 191.

***PHY 210 GENERAL PHYSICS I 4 cr.**
A calculus based, introductory physics course emphasizing classical concepts. Selected topics include: motion, work and energy, gravitation, electricity and magnetism, and electromagnetic waves. Prerequisite: MA 231. Co-requisite: MA 232.

***PHY 211 GENERAL PHYSICS II 4 cr.**
Continuation of PHY 191 or 210. Corequisite MA 233.

PHY 264 PHYSICAL METHODS IN FORENSIC SCIENCE 3 cr.
An advanced treatment of the chemical methods used in the investigation of criminal

activities. The use and reliability of chemical tests, solubilities, and reactions as well as the chemistry of chromatographic, spectroscopic and instrumental analyses will be included. Prerequisites: CHM 110, SCI 104, SCI 107

PHY 311 MODERN PHYSICS I 3 cr.
An introduction to 20th century physics, including the structure of atoms and nuclei, basic ideas of quantum mechanics and solid state theory. Prerequisite: MA 233. Corequisite: MA 311.

PHY 312 MODERN PHYSICS II 3 cr.
Continuation of PHY 311.

PHY 313 PHYSICAL MECHANICS I 3 cr.
An analytic treatment of classical mechanics covering the methods of statics and dynamics of rigid bodies with application to physical problems; small oscillations, generalized coordinates and Lagrange's equations. Prerequisite: MA 233 and PHY 211. Corequisite: MA 311.

PHY 314 PHYSICAL MECHANICS II 3 cr.
Continuation of PHY 313.

PHY 315 ANALOG ELECTRONICS 4 cr.
The basics of analog electronics will be discussed and explored in the lab. Topics covered include: Kirchoff's laws, Thevennin equivalent circuits, time varying signals, filters, diodes, transistors, and amplifiers. Prerequisite: PHY 211. Co-requisite MA 311.

PHY 316 DIGITAL ELECTRONICS 4 cr.
The basics of digital electronics will be discussed and explored in the lab. Topics covered include: binary systems, boolean algebra and logic gates, information registers, memory circuits, and digital microprocessors.

PHY 317 PHYSICAL OPTICS 3 cr.
Wave phenomena, electromagnetic theory of light, interference, diffraction, polarization and nonlinear optics. Prerequisite: MA 233, MA 311 and PHY 211.

PHY 318 THERMODYNAMICS 3 cr.
An introduction to thermal physics and kinetic theory. Prerequisite: MA 233, MA 311 and PHY 211.

PHY 319 INTRODUCTION TO SOLID STATE PHYSICS 3 cr.
A brief summary of the theory underlying the behavior of solids. Emphasis on transport theory, interaction of light and matter, semiconductor devices, superconductors and lasers. Prerequisite: PHY 312, MA 233, and MA 311.

PHY 321 SELECTED TOPICS I 3 cr.
Any selected topic not sufficiently covered in a general course.

PHY 322 SELECTED TOPICS II 3 cr.
See PHY 321 for course description.

PHY 401 ELECTRICITY AND MAGNETISM I 3 cr.
Foundations of electromagnetic theory including electrostatics, dielectric theory, magnetic properties. Prerequisite: MA 311 and PHY 211.

PHY 402 ELECTRICITY AND MAGNETISM II 3 cr.
Continuation of PHY 401.

PHY 407 INTRODUCTION TO QUANTUM MECHANICS 3 cr.
An introduction to wave mechanical and axiomatic approaches with simple applications. Prerequisite: MA 233, MA 311 and PHY 312.

PHY 408 ATOMIC AND NUCLEAR PHYSICS 3 cr.
Continuation of PHY 407; physical applications of quantum mechanics to atomic and nuclear physics.

PHY 415 PHYSICS RESEARCH I 3 cr.
Undergraduate physics research project initiated by the student and completed in conjunction with a faculty member. Permission of the instructor required.

PHY 416 PHYSICS RESEARCH II 3 cr.
Undergraduate physics research project initiated by the student and completed in conjunction with a faculty member. Prerequisite: PHY 415 and permission of the instructor.

PHY 450 CURRENT SCIENTIFIC PHENOMENA 1 - 3 cr.
This course permits students to take advantage of important temporary phenomena. Thus credit hours, period and time of presentation, and instructional personnel must vary. Selection of topics will be based upon intrinsic value and interest as well as importance for other courses. May be taken for 1 through 3 credits not to exceed 6 credits.

PHY 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

POLITICAL SCIENCE

***PSC 100 INTRODUCTION TO POLITICS 3 cr.**
Examines major concepts, institutions, processes, actors, and issues in modern politics. Emphasis is on universal trends and themes. Required of majors

***PSC 201 AMERICAN POLITICS 3 cr.**
Examines political principles and processes, governmental institutions and mechanics of governing in the United States.

***PSC 204 STATE AND LOCAL POLITICS 3 cr.**
Examines political principles and processes, governmental institutions, and mechanics of governing the states and their local units.

***PSC 210 WORLD POLITICS 3 cr.**
Examines international relations in our time. Emphasis is on the goals and behaviors of nation-states, the policies of important countries, the causes of regional conflicts, and the search for peace, security, order and justice.

***PSC 212 COMPARATIVE POLITICS 3 cr.**
Examines the governments and politics of representative nations. Emphasis is on political cultures, processes, institutions, and policies, as well as forces creating consensus and conflict, stability, and instability.

***PSC 235 RESEARCH METHODS 3 cr.**
Introduces logic and methods of social science research. Emphasis on developing skills of conceptualization, measurement, and association.

***PSC 301 PARTICIPATION AND ELECTIONS 3 cr.**
Examines the roles of social and political institutions in shaping participation and voting behavior, as well as the ways individuals acquire political knowledge, attitudes and opinions.

***PSC 312 CANADA, MEXICO AND THE U.S. 3 cr.**
Explores the political systems of Canada, Mexico, and the U.S. as well as relations among them. Highlights political cultures, institutions, processes, policies and controversies. Pays special attention to NAFTA.

PSC 328 POLITICAL ECONOMY 3 cr.
Examines the relationship between politics and economics in modern society. Emphasis is on democracy and capitalism in America, and on the role of government in the U.S. economy.

PSC 330 PUBLIC POLICY 3 cr.
Examines the public policy process from issue creation to policy adoption. Focuses on the politics of the policy making process.

***PSC 333 MODERN IDEOLOGIES 3 cr.**
Examines the development and impact of modern ideologies from the French Revolution to the present. Emphasis is on liberalism, conservatism, socialism, anarchism, nationalism, and less prominent variations of these.

PSC 389 VIETNAM WAR 3 cr.
Examines the historical, military, political, religious, and social aspects of the war. Includes the effect on Vietnam politically and culturally. American domestic concerns, international aspects and consequences will be covered.

***PSC 402 PRESIDENT AND CONGRESS 3 cr.**
Examines the Executive and Congress as both governmental and political institutions, as well as the ongoing relationship between them.

PSC 404 COURTS AND THE CONSTITUTION 3 cr.
Examines general principles of the U.S. constitutional system and the role of the judiciary in interpreting individual rights.

PSC 412 TOPICS IN COMPARATIVE POLITICS 3 cr.
Examines in depth the government and politics of a particular country or group of countries (e.g. Canada, Communist systems, developing countries, the European Community).

PSC 415 U S FOREIGN POLICY 3 cr.
Examines the content and process of U.S. foreign policy since 1900. Emphasis is on interests, objectives and strategies in key regions as well as domestic forces and constraints.

PSC 450 INTERNSHIP 1 - 15 cr.
Designed to give actual experience in the work of an agency and an understanding of the agency's position in the community. Further, the intern should become aware of the agency's philosophy and goals, the formal and informal organization of the agency, and the role for the agency in the political system.

PSC 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

PSYCHOLOGY

***PSY 101 INTRODUCTION TO GENERAL PSYCHOLOGY 3 cr.**
Designed to familiarize students with the application of scientific psychology to human life. Emphasis is on "normal" behavior and its antecedents. Includes the study of broad categories of human behavior through various psychological models.

PSY 151 INTRODUCTION TO APPLICATIONS OF PSYCHOLOGY 3 cr.
Intended for students who have recently become or are seriously considering a psychology major. Will focus on assessing initial skill levels, career choices and planning, critical skills and experiences that may be required for entry into the workforce or graduate study; department policies and procedures; and writing style requirements of the American Psychological Association (APA).

PSY 201 TESTS AND MEASUREMENTS OF PSYCHOLOGY 3 cr.
A study of the theory and techniques of behavior assessment, emphasizing computerized methods. It surveys psychological tests and their applications. Prerequisite: MA 125 and PSY 101, or permission of instructor.

***PSY 203 (SOC) TELEPHONE SURVEY RESEARCH 3 cr.**
Provides training in applied social research. Students are directly involved in the construction of an interview schedule, selecting a sample, conducting telephone interviews, coding and analyzing data, and writing a report.

PSY 204 SURVEY RESEARCH METHODS 4 cr.
Introduces students to the scientific method of survey research methodology by having them construct a questionnaire, administer it to a sample of participants, analyze the data using the Statistical Package for the Social Sciences, write a report using the APA format, and present the results at the Psychology Department Research Symposium. Prerequisite: PSY 101, 201, and MA 125.

***PSY 210 PSYCHOLOGY OF FAMILY RELATIONS 3 cr.**
This survey course covers the psychological dynamics of the family as a unit, parent-child interactions, the effect of developmental events on the psychology of the family, divorce, single parent families, etc. Class discussion and videotapes are used to illustrate these concepts.

***PSY 212 HUMAN SEXUALITY 3 cr.**
Provides a survey of scientific findings in the area of human sexual behavior, including topics of current interest and controversy as well as the traditional issues.

***PSY 225 LEADERSHIP SKILLS 1 cr.**
This experiential workshop-style course is intended to help student leaders develop skills for effective leadership in campus and other settings. Skills addressed include having an appropriate attitude toward leadership values and ethics, communicating as a leader, working in small groups, managing conflict, leading in diverse environments, and building commitment and coalitions.

PSY 250 EXPERIMENTAL DESIGN I 4 cr.
Studies the design of controlled experiments as well as quasi-experiments in the behavioral sciences. Prerequisite: MA 125 and PSY 101. Prerequisite: MA 125, PSY 101 and PSY 201, or permission of instructor.

***PSY 290 LIFE SPAN DEVELOPMENT 3 cr.**
Surveys empirical findings regarding the interactive aspects of human behavioral development from conception through old age. Includes examination of major theories regarding physical, social, emotional, and mental development. Emphasizes normal

development as it is experienced at each stage of human life span. Prerequisite: PSY 101 or permission of instructor.

***PSY 292 CHILD PSYCHOLOGY 3 cr.**
Surveys theories and empirical findings regarding the interactive aspects of human behavioral development from conception through pre-adolescence. Examines major findings regarding physical, social, emotional, and mental development. Emphasizes normal development as it is experienced at each stage of the childhood years before adolescence.

PSY 300 HELPING SKILLS 3 cr.
Designed to help students develop effective listening and interpersonal skills for conducting counseling. The primary emphasis of this course is on (1) the application of counseling and psychological theory to actual casework and (2) the development of counseling skills through observing and conducting peer counseling sessions. Prerequisite: PSY 101 and upper division standing.

PSY 301 THEORIES OF COUNSELING 3 cr.
Considers the major theories of psychological treatment and behavior change. The major theories covered will include: psychodynamic, humanistic, behavior, cognitive, and family systems therapies. Emphasis is placed on student understanding of conceptual bases of dominant counseling models. Prerequisite: PSY 101 and upper division standing.

PSY 310 SOCIAL PSYCHOLOGY 3 cr.
Covers the individual aspects of social behavior. Attention is focused on problems in perception, thinking, and motivation. The following topics are examined: theories of person perception, attitude formation, personality structure, motivational determinants of group membership and social conformity, social roles and leadership. Prerequisite: PSY 101.

PSY 311 INTRODUCTION TO SMALL GROUP PROCESS 3 cr.
Basic principles of small group process are examined through didactic and experiential approaches. Applications in various settings are examined. Prerequisite: PSY 101.

PSY 312 DEVIANT BEHAVIOR AND SOCIAL PROCESS 3 cr.
Psychological theories of deviant behavior are studied. Major areas include: sexual deviations, prostitution, juvenile delinquency, suicide, obesity, drug addiction, etc., and the various treatment modalities. Prerequisite: PSY 101.

PSY 313 PSYCHOLOGY OF INTERVIEWING 3 cr.
An introduction to theoretical, methodological, and technical considerations of interviewing from a psychological perspective. Designed for those interested in the applications of interviewing in an industrial or organizational setting. Skill development is emphasized. Prerequisite: PSY 101.

***PSY 321 ADOLESCENT PSYCHOLOGY 3 cr.**
An overview of research, theory, and trends in the study of adolescence as a stage in human development from the onset of biological pubesence to the transition to young adulthood. Consideration of the multiple and interacting influences on adolescent development and behavior is a major focus of the course. Prerequisite: PSY 101.

PSY 324 ADULT DEVELOPMENT AND AGING 3 cr.
Addresses the study of trends in human development from the transition to early adulthood, through senescence, to death. Examines the social, biological, cognitive, and personality components of the aging process. Emphasizes variations in psychological adaptations to personal changes and role transitions during the adult years. Prerequisites: PSY 101 or permission of instructor.

PSY 325 ADVANCED LEADERSHIP 3 cr.
Provides students with an in-depth understanding of leadership issues and examines applications of leadership principles to the college environment as well as other settings in the community. Students will participate in a campus or community setting where they can study and apply these principles. Prerequisite: 49 credit hours completed or permission of the instructor.

PSY 330 DRUGS AND BEHAVIOR 3 cr.
Examines the history, use, and abuse of psychoactive drugs. The course focuses on the neurobiological basis, clinical applications, side effects, and abuses of a variety of drugs used for treating anxiety, mood, and thought disorders, as well as those drugs commonly abused, such as sedatives, stimulants, opiates, and hallucinogens. Prerequisite: PSY 101.

PSY 332 PSYCHOLOGY OF STRESS MANAGEMENT 3 cr.
This course provides a current overview of stress and stress-related dysfunction. Techniques for managing stress are emphasized through demonstration and student participation. Prerequisite: PSY 101 and 49 credit hours completed, or permission of instructor.

PSY 350 EXPERIMENTAL I: LEARNING 3 cr.
Surveys theories, research methodologies, and findings in the area of learning. Prerequisite: PSY 250 or 204, or permission of instructor.

PSY 350L EXPERIMENTAL I: LEARNING LABORATORY 1 cr.
Provides a working knowledge of research methodology and skills in psychological investigation. Students design and conduct research under instructor supervision. Corequisite: PSY 350.

PSY 355 HEALTH PSYCHOLOGY 3 cr.
This course examines relationships that exist between our behavior, our environment, and health and disease. Specific areas of review include the psychology of physical activity, smoking cessation, weight-control, stress-disease links with cancer and cardiovascular disease, and models of health care seeking behaviors. The laboratory exercises will further explore aspects of health and disease affected by social and behavioral conditions. Prerequisites: PSY 101, MA 125, PSY 250 or PSY 204, or permission of the instructor.

PSY 391 ABNORMAL PSYCHOLOGY 3 cr.
Provides a general introduction to the field of abnormal psychology. Major models of psychopathology and the causes and symptoms of abnormal thinking and behavior are considered. Prerequisite: PSY101.

PSY 406 INTRODUCTION TO CLINICAL NEUROPSYCHOLOGY 3 cr.
This course will provide an introduction to the field of Clinical Neuropsychology including the study of the human brain and a variety of neurological disorders. Students will explore a variety of different disorders and will be introduced to neuropsychological assessment techniques. This course is particularly useful for pre-med, nursing, biology, and psychology students. Prerequisite: PSY 101 or BSC 104, or permission of instructor and 49 credit hours completed.

PSY 410 INDUSTRIAL AND ORGANIZATIONAL PSYCHOLOGY 3 cr.
Surveys selected topics in industrial-organizational (I-O) psychology, including but not limited to measurement, regulatory environment, job analysis, recruitment, selection, and training. Emphasizes both scientific and practitioner issues regarding work behavior. Prerequisite: PSY 101 and 49 credit hours completed.

PSY 412 HRM SPECIAL TOPICS 3 cr.
This course examines specific, variable topics related to the field of human resource management. Regularly offered topics include compensation and benefits, training and management development, organization development, and labor relations. Students may repeat the course but not the same topic for up to 12 credits. Prerequisite: PSY 101 and 49 credit hours completed.

PSY 421 DEATH AND DYING 3 cr.
Provides an overview of the psychological aspects of death and dying in our society. Topics include attitudes toward and preparation for death, the terminally ill patient, funeral rituals and burial, mourning and grief, and suicide and euthanasia. Classroom material is supplemented by the student's self-exploration and writing on feelings, attitudes, and beliefs about death. Prerequisite: PSY 101.

PSY 422 PSYCHOLOGY OF WOMEN 3 cr.
Designed to introduce students to the myriad factors influencing the development of girls and women in a variety of cultures and societies. Areas covered include feminist scholarship and research; gender socialization, women's biology and health; sexuality, relationships and family; and work, career, and power issues. Students taking the course for graduate credit (PSY 522) will be required to complete an independent research project. Prerequisite: PSY 101.

PSY 430 THEORIES OF PERSONALITY 3 cr.
Considers major personality theories ranging from psychoanalytic to humanistic and behavioral models. Papers and discussion concentrate on examining merits and limitations of various theories. Prerequisite: PSY 101 and 49 credit hours completed.

PSY 441 PSYCHOLOGY AND LAW 3 cr.
Introduces the role of psychologists in the legal system. Assignments examine and evaluate assumptions made by the legal system about psychological and scientific issues. This approach serves as a framework for considering specific psycho-legal issues. Students study issues pertaining to jury trials., the insanity plea, punishment and sentencing issues, the rights of children, and other important questions. Prerequisite: PSY 101 and 49 credit hours completed.

PSY 445 ADVANCED COUNSELING TECHNIQUES 3 cr.
Provides advanced training in counseling skills for students in the helping professions (nursing, social work, counseling/clinical psychology, criminal justice, etc.). Emphasis placed on diagnosis and treatment of clients requiring long-term intervention. Special emphasis will be placed on diagnosis and treatment of personality disorders. Prerequisite: PSY 391 and 300 or permission of instructor. Dual listed with 545.

PSY 446 THEORY OF CHEMICAL ADDICTIONS TREATMENT 3 cr.
Provides a knowledge base and theoretical framework for supervised work experience in chemical addictions treatment. Prepares students for the Practice of Chemical Addictions Treatment course and the Chemical Addictions Certification (CAC) written examination when combined with additional studies and supervised experience. Prerequisites: PSY 301 and PSY 391, or equivalent.

PSY 460 PHYSIOLOGICAL PSYCHOLOGY 3 cr.
Emphasizes physiological aspects of behavior through knowledge of the neurological structure and function. Prerequisite: PSY 204 or 250 or permission of instructor.

PSY 460L PHYSIOLOGICAL PSYCHOLOGY LABORATORY 1 cr.
Provides a working knowledge of research methodology and skills in psychological investigation. Students design and conduct research under instructor supervision. Corequisite: PSY 460. Prerequisite: PSY 204 or 250.

PSY 462 BEHAVIOR MODIFICATION 3 cr.
Provides an introduction to a variety of techniques for altering behavior based on learning principles. Prerequisite: PSY 101.

PSY 490 SENIOR SEMINAR 3 cr.
In this course senior psychology majors explore their strengths and weaknesses and review the knodwledge and skills they have acquired as a psychology major. Students are directed toward understanding how their skill sets and personal preferences may be successfully applied after completion of the B.S. degree (work or graduate school). Additionally, students submit a portfolio of their work while at Mansfield and to complete a research-based seminar paper. Prerequisite: Senior standing or permission of instructor.

PSY 491 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 cr.
Examines a variety of issues in the field of human resource management (HRM). This is the Senior Seminar for the HRM emphasis and includes both HRM content material, comprehensive exams and completion of a portfolio. Heavy student participation is expected as well as learning to function in a leadership role. Prerequisite: 49 credit hours completed or permission of instructor.

PSY 495 PRE-PROFESSIONAL EXPERIENCE 6 - 15 cr.
Provides practical experience and beginning skills to selected students. The experience will focus on applied skills, community service or research work in settings appropriate to the students' interests and curriculum, including mental health and other human service programs, hospitals, personnel offices, and industrial or governmental agencies. The goal is to relate theoretical learning to practical application. Prerequisite: Consent of department chairperson based on the recommendations of the department preprofessional committee. May be taken for 6 through 15 credits.

PSY 496 RESEARCH APPRENTICESHIP 6 - 15 cr.
Provides students with intensive experiences in empirical research under close supervision. Qualified students will become involved in ongoing research projects, working along with experienced researchers. Students are encouraged to serve their apprenticeship at other campuses or institutional settings. may be taken for 6 through 15 credits.

PSY 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

REGIONAL PLANNING

***RPL 102 INTRODUCTION TO REGIONAL PLANNING 3 cr.**
Examines regional planning as a tool for shaping the future man-made and natural environment. Introduces man/land relationships that affect community well-being, the tools used by government in managing these relationships for public benefit; and programs, politics, and activities required in recent planning legislation.

RPL 342 LAND-USE POLICY 3 cr.
An interpretive synthesis of the precepts and concepts of land-use that encourage and discourage geographic patterns on a changing landscape. Familiarizes the student with the economic, social, and political processes that are especially important for planning which is intended to move regions toward a particular goal.

RPL 494 PLANNING SEMINAR 3 cr.
Practical application of techniques learned in previous courses to typical planning problems.

RPL 496 PLANNING INTERNSHIP 3 - 12 cr.
Provides experience in regional or corporate planning offices to apply knowledge and skills of planning under the supervision of qualified planners. Observations, conferences, and an evaluation is made by the supervisory agency. All internships will be graded S or U – they do not affect your Q.P.A.

RPL 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

RESPIRATORY THERAPY

RTH 101 FUNDAMENTALS OF RESPIRATORY CARE I 3 cr.
Examines the scientific principles underlying the safe administration of medical gases and aerosols to patients in the hospital setting. Prerequisites: BSC 121, MA 128, each with a grade of C minus (C-) or better and a cumulative grade point average of 2.0.

RTH 102 FUNDAMENTALS OF RESPIRATORY CARE II 4 cr.
Classroom instruction and laboratory practice of fundamental respiratory care assessment and therapeutic procedures. Assessment topics include: chest physical examination, chest x-rays, electrocardiograms, and bedside pulmonary function tests. Therapeutic topics include: oxygen and aerosol therapy, hyperinflation therapies, chest physical therapy, airway management, and cardiopulmonary resuscitation. Prerequisites: RTH 101, BSC 121, and MA 128, each with a grade of C minus (C-) or better and a cumulative grade point average of 2.0.

RTH 111 PULMONARY FUNCTION TESTING 2 cr.
This course covers lung function in health and disease. Techniques used to measure lung function are discussed and demonstrated. The student is instructed in the interpretation of pulmonary function tests. Prerequisites: BSC 121. Corequisite: RTH 101.

RTH 112 ARTERIAL BLOOD GASES 1 cr.
This course covers the sampling and analysis of arterial blood and the interpretation of test results. Majors only. Prerequisites: RTH 101, BSC 121, and CHM 101.

RTH 199 CLINICAL PRACTICUM I 2 cr.
Introduction to the clinical practice of respiratory care. Provides experience in the administration of oxygen, aerosols, hyperinflation therapies, chest physical therapy, and artificial airway care. Examines the fundamentals of arterial blood gas sampling and analysis. Prerequisite: RTH 101, BSC 121 and MA 128 each with a grade of C (C-) or better and a cumulative grade point average of 2.0. Concurrent registration in RTH 102.

RTH 200 CLINICAL PRACTICUM II 5 cr.
Designed to achieve competence in the administration of routine respiratory therapy modalities and competence in arterial blood gas sampling and analysis. Students will accompany pulmonary physicians on patient rounds and rotate through other clinical areas of the hospital. Prerequisite: RTH 102 and 199.

RTH 204 PHARMACOLOGY 2 cr.
Examines the action and uses of pharmacologic agents. Emphasis is on drugs used in the diagnosis and treatment of cardiac and pulmonary disease, and includes the calculation of dosages and solutions.

RTH 207 PULMONARY DISEASE 2 cr.
Introduction to common pulmonary disorders and their management. Topics include chronic obstructive pulmonary disease, restrictive pulmonary disorders, infectious pulmonary disease, pulmonary vascular disease, pulmonary pathology due to trauma, neonatal cardiopulmonary disease, and pediatric pulmonary disease. Prerequisite: BSC 122.

RTH 208 PERINATAL/PEDIATRIC RESPIRATORY CARE 2 cr.
Examines respiratory physiology and pathophysiology relevant to the newborn and pediatric patient. The principles, techniques, and equipment relied upon in providing respiratory care to this age group are identified and demonstrated. Prerequisite: RTH 102.

RTH 209 CLINICAL PRACTICUM III 3 cr.
Application of respiratory care to the patient in the critical care unit. Emphasis is on the management of adult and pediatric patients requiring mechanical support of ventilation. Prerequisite: RTH 200 and concurrent registration in RTH 211.

RTH 210 CLINICAL PRACTICUM IV 5 cr.
Continuation of RTH 209. Designed to achieve competence in the performance of all critical care procedures performed by the respiratory therapists. Prerequisite: RTH 209 and concurrent registration in RTH 212.

RTH 211 MECHANICAL VENTILATION 4 cr.
Classroom instruction and laboratory practice in the management of patients requiring continuous mechanical support of ventilation. Prerequisite: RTH 102.

RTH 212 ADVANCED CARDIOPULMONARY CARE 3 cr.
Examines cardiovascular problems, advanced cardiopulmonary monitoring techniques, special procedures, pulmonary rehabilitation, and home care. Prerequisite: RTH 211.

RUSSIAN STUDIES

RUS 101 INTRODUCTORY RUSSIAN I 3 cr.
Oral alphabet drill, written alphabet drill, study of specific letters and sounds, pronunciation and orthography, personal pronouns, present tense, first conjugation verbs, accusative of personal pronoun questions, indirect questions and negation, present tense, second conjugation verbs, reflexive verbs, gender of nouns, accusative of nouns (direct objects), verbs of going, months and years with numbers, prepositional case of nouns, possessive pronouns/adjectives. Prerequisite: proven foreign language ability.

RUS 102 INTRODUCTORY RUSSIAN II 3 cr.
Dative case of pronouns, double negatives, conjunctions. Noun plurals, stress shift in plurals, geographical information, expressions with dative, demonstrative pronouns, adjectives, superlative degree, past tense, future tense, accusative of adjectives/possessive pronouns, relative pronouns, partitive genitive, instrumental case with prepositions. Prerequisite: RUS 101.

RUS 201 INTERMEDIATE RUSSIAN I 3 cr.
The perfective and imperfective aspect of verbs, dates and the negative case, dative case of nouns, adjectives and pronouns, instrumental case without prepositions, relative

pronouns, partitive genitive, passive voice, instrumental case with prepositions, masculine nouns with stressed endings, genitive plural, adjectives modified by numbers, dative, instrumental and prepositional plural, indefinite pronouns, adjectives and adverbs, comparative degree of adjectives and adverbs, reading of simple texts. Prerequisite: RUS 101 and 102 or equivalent.

RUS 202 INTERMEDIATE RUSSIAN II 3 cr.
Conditional, subjunctive mood, verbs of going, running, taking, bringing, carrying, leading, prefixed verbs of motion, additional information about perfective/imperfective verbs, verbal adverbs, declension of last names, participles: present active, past active, present passive, past passive, review of semesters and previous grammar, further reading of simple Russian texts. Prerequisite: RUS 101 and 102 or equivalent.

RUS 370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
Open to students who wish to study abroad. Plans for foreign study should be presented at least one semester prior to departure. Number of credits granted will be based upon validated credentials presented to the department. The student should register for RUS 370-380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

RUS 371-380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See RUS 370 for course description.

SCIENCE

***SCI 104 FORENSIC SCIENCE 3 cr.**
Forensic science is the application of science to law. this course will study the collection and identification of materials used as evidence. This will include an understanding of their physical and chemical nature and origins at the crime scene. Further, the student will utilize the collected evidence to suggest scenarios for crime scenes.

***SCI 107 PHYSICAL SCIENCE I 3 cr.**
An introduction to astronomy, forces and motion, and energy. Students will construct laboratory apparatus from readily available sources to make physical measurements. This general education course is particularly suitable for elementary education majors.

***SCI 108 PHYSICAL SCIENCE II 3 cr.**
An introduction to the atom, chemistry, electricity and magnetism, sound, and light. Students will construct laboratory apparatus from readily available sources to make physical measurements. This general education course is particularly suitable for elementary education majors.

SCI 400 SPECIAL TOPICS IN SCIENCE EDUCATION 1 – 3 cr.
This is a course for one to three credits for practicing teachers and for graduate and undergraduate students who are enrolled in education programs. The course may focus on one or more physical science topics, but content, activities, and methods will be treated with equal importance for a variety of classroom settings. The information, ideas, and activities obtained will be timely and useful to teachers in their classrooms.

SOCIOLOGY

***SOC 101 INTRODUCTION TO SOCIOLOGY 3 cr.**
Introduction to the basic concepts, premises, and techniques involved in the scientific approach to the study of human societies. Analysis is made of selected aspects of social behavior at interpersonal, intergroup, and societal levels of contemporary American society.

***SOC 121 CONTEMPORARY SOCIAL PROBLEMS 3 cr.**
Survey of social problems confronting American society today. Special attention is given to variant theoretical and social policy approaches to social problems.

SOC 200 AMERICAN MINORITIES 3 cr.
An investigation of the individual and group processes by which the U. S. has been peopled and of the resulting racial, religious, and ethnic communities. Consideration will be given to the similarities and differences in the values and experiences of a variety of groups and to the relative strength of tendencies toward assimilation and toward preservation of distinguishing characteristics.

***SOC 203 (PSY 203) TELEPHONE SURVEY RESEARCH 3 cr.**
Provides training in applied social research. Students are directly involved in constructing an interview schedule, selecting a sample, conducting telephone interviews, coding and analyzing data, and writing a report.

***SOC 232 AMERICAN FAMILY SYSTEMS 3 cr.**
Examines the family throughout the life cycle. Focus is on the life styles of contemporary families, the influence of values upon family life, and issues affecting individuals and families.

***SOC 300 MEN IN SOCIETY 3 cr.**
Survey and analysis of traditional male sex-roles, as well as the evolution of new societal definitions of masculinity and the 'New' Men's Movement. Male/male and male/female relationships and communication are also critiqued and evaluated. The emphasis throughout is upon student application of critical thinking skills to appropriate written and media sources of sociological information. Dual listed with 500.

SOC 301 ORGANIZATIONAL BEHAVIOR 3 cr.
Examines the social dimensions of work organizations including formal and informal interaction patterns, leadership, and organizational culture.

SOC 305 SOCIOLOGY OF RELIGION 3 cr.
Analysis of the interrelationships between religion and other aspects of society, particularly with reference to the problems of order and change.

***SOC 306 INTERRACIAL SEMINAR 3 cr.**
Examination of personal and institutional aspects of interracial relationships. Emphasis is on participative exploration through the use of controlled observations, simulations, role playing, and similar techniques.

SOC 307 SOCIAL RESEARCH I: RESEARCH DESIGN DATA COLLECTION 3 cr.
An introduction to the logic and techniques of the social research process. Special attention is given to construction of questions, mailed questionnaires, and interviewing techniques.

SOC 308 (PSC 308) SOCIAL RESEARCH II: ANALYSIS, INTERPRETATION, AND APPLICATIONS 3 cr.
Techniques and procedures for processing social science data. Ability to develop and evaluate research reports and to judge how findings may be applied to improve social work practices are primary goals of the course. Previous training in statistics strongly recommended.

***SOC 322 SOCIOLOGY OF AGING 3 cr.**
Analyzes the influence of social interaction upon the process, stages, and problems of aging, particularly of older age. Student-conducted oral history is utilized not only as a

catalyst for intergenerational understanding and respect, but also as a therapeutic social work technique designed to enhance the self-image of older people by having them look back over their personal histories and through that process help them to meet the human need to attain a self-appreciation of the validity and significance of their lives. Dual listed with 522.

SOC 357 SOCIOLOGY OF EDUCATION 3 cr.
This course is designed to introduce students to the major sociological theories and research in the area of education. Students will examine the history and structure of education in the US and how the US compares with other countries. Understanding who makes it and who doesn't in the US education system and why, is the major focus of the course.

SOC 340 VISUAL SOCIOLOGY 3 cr.
Explores social relations with the camera. Examines the use of photographs as tools of inquiry, documentation, and data for social analysis. Studies problems related to cultural features affecting visual perception and reportage.

SOC 350 SELECTED TOPICS SEMINAR 1 - 6 cr.
Review of a specialty area in anthropology, sociology or the study of a problem from an interdisciplinary position. Prerequisite: upper division standing and permission of instructor. May be taken for one through six credits.

***SOC 415 AMERICAN VALUES IN CONFLICT 3 cr.**
Analyzes American values and values conflicts from a sociological perspective, placing such values and conflicts within a context of ideological orientation, ethnic/racial and social class diversity, group interaction, socio-cultural change, and societal policy.

SOC 441 ORGANIZATIONAL INTERNSHIP 6 - 15 cr.
Provides experience in the regular activities of a business, government agency, or social service organization. Students will prepare an analysis of the organization=s role system and its real or potential area of stress. May be taken from six through fifteen credits. Prerequisite: permission of instructor; SOC 301 strongly recommended.

SOC 480 SOCIOLOGICAL THEORY 3 cr.
An examination of classical and contemporary sociological theorists: Karl Marx, Max Weber, Emile Durkheim, C. Wright Mills, Erving Goffman and Amitai Etzioni. Each theoretical perspective is critically reviewed. Prerequisite: Twelve semester hours of Sociology courses or instructor approval.

SOC 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

SPANISH

SPA 101 INTRODUCTORY SPANISH I 3 cr.
For students who have not previously studied Spanish. Fundamentals of grammar, intensive drill in pronunciation, comprehension, and speaking. Two hours language laboratory required weekly.

SPA 102 INTRODUCTORY SPANISH II 3 cr.
Continuation of 101, two hour language laboratory weekly. Prerequisite: SPA 101 or equivalent.

SPA 201 INTERMEDIATE SPANISH I 3 cr.
Continuation of 102, grammar review. Prerequisite: SPA 102 or equivalent.

SPA 202 INTERMEDIATE SPANISH II 3 cr.
Continuation of 201. Prerequisite: SPA 201 or equivalent.

SPA 205 PRONUNCIATION AND PHONETICS 1 cr.
Analysis of Spanish phonetics. Emphasizes oral drills for English-speakers seeking to acquire Spanish accent. Prerequisite: SPA 102.

SPA 300 SPANISH CONVERSATION 3 cr.
Practice in oral self-expression and comprehension. Selected topics assigned for each class. Prerequisite: SPA 202 or permission of instructor.

SPA 305 SPANISH CONVERSATION AND COMPOSITION 3 cr.
Intensive development of oral expression and self-expression in writing for students desiring a higher level of oral fluency and proficiency in writing. Class is conducted in Spanish. Prerequisite: SPA 202 or permission of instructor.

SPA 306 THE CULTURE AND CIVILIZATION OF SPAIN 3 cr.
Examines the history of customs and institutions of Spain. Emphasizes the effect of history on general culture and customs of present-day Spain. Prerequisite: SPA 202 or equivalent.

SPA 307 THE CULTURE AND CIVILIZATION OF LATIN AMERICA 3 cr.
Studies the history, customs and politics of Latin America. Emphasizes general characteristics: race, religion, life style, etc. Prerequisite: SPA 202 or equivalent.

SPA 320 ADVANCED SPANISH STRUCTURE 3 cr.
Study and application of Spanish structural patterns; emphasizes syntax. Prerequisite: SPA 202 or equivalent.

SPA 330 SURVEY OF SPANISH LITERATURE I 3 cr.
Examines the most important writers of Spain through 17th century; attention given to literary movements, historical backgrounds, style and form. Prerequisite: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 331 SURVEY OF SPANISH LITERATURE II 3 cr.
Continuation of 330. Prerequisite: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 340 SPANISH-AMERICAN LITERATURE I 3 cr.
Examines the major Spanish-American writers and movements through Realism and Naturalism. Prerequisite: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 341 SPANISH-AMERICAN LITERATURE II 3 cr.
Continuation of 340 from Modernism to the present. Prerequisite: SPA 300, 305, 306, 307, 320 or permission of instructor.

SPA 370 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
Open to students who wish to continue the study of Spanish abroad. Plans for foreign study should be presented at least one semester prior to departure and should be approved by the department chairperson. Number of credits granted will be based upon validated credentials presented to the department. The student should register for SPA 370-380 prior to departure. Students should consult the regulations for study-abroad available in the Office of the Provost/Vice President for Academic Affairs.

SPA 371-380 FOREIGN STUDY - CREDIT ARRANGED 1 - 3 cr.
See SPA 370 for course description.

SPA 400 SENIOR SEMINAR 2 cr.
Selected topics in Spanish and Latin American Literature.

SPA 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for one, two or three credits at one time.

SPECIAL EDUCATION

SPE 101 INTRODUCTION TO SPECIAL EDUCATION 3 cr.
Examines the nature and need of persons who are exceptional in emotional, social, physical, and intellectual development, including the gifted and talented. Discussions will include career opportunities, social issues, current trends in Special Education, rehabilitation and related settings. Observation in Special Education settings will be available.

SPE 270 MENTALLY AND PHYSICALLY DISABLED 3 cr.
Introduction to etiology, characteristics, education, management, and laws pertaining to children and adults with mental and physical disabilities. Prerequisite: SPE 101 or permission of instructor.

SPE 275 INCLUSION OF DIVERSE LEARNERS 3 cr.
This course is designed to prepare teacher candidates to teach in schools which are becoming diverse. Issues, which include gender, social class, race, ethnicity, disabilities and religion, will be discussed. The teacher candidate will develop skills in teaching pedagogy, assessment curriculum development and teacher student relationships.

SPE 280 CHILDREN IN NEED OF EMOTIONAL SUPPORT 3 cr.
Examines the etiology of emotional disturbance with concentration on the characteristics, diagnostic procedures, therapy, educational strategies, instructional materials, and relevant research in relation to the education of emotional/behavioral disturbance. Includes observation and child study experience.

SPE 290 LEARNING DISABILITIES 3 cr.
Introduction to the definition, identification, etiology, and epidemiology of learning disabilities with a particular emphasis on methods of differential diagnosis and educational procedure. Remediation strategies, classroom management, and research will be studied.

SPE 300 CURRICULUM DEVELOPMENT ADJUSTMENT 3 cr.
Examines curriculum development, adjustments, methods, and materials in Special Education. Studies IEP goals, school organization, grouping, planning unit instruction, teaching-learning process, evaluating pupil progress, and parent and other agency relationships. Prerequisite: SPE 270 or permission of instructor.

SPE 310 COMMUNICATION DISORDERS 3 cr.
Introduction to the nature of specific speech, hearing and language disorders.

SPE 320 GIFTED AND TALENTED 3 cr.
Considers the characteristics of the gifted and talented. Introduces teaching procedures, program types, curriculum materials, and research.

SPE 321 METHODS FOR THE GIFTED 3 cr.
Examines curriculum, methods, materials, and resources in the education of the gifted and talented. Includes analysis and demonstration of leading materials and strategies. Case studies, field visits, and teaching simulations are provided.

SPE 322 STRATEGIES FOR ADOLESCENTS WITH MILD DISABILITIES 3 cr.
A study of cognitive and metacognitive strategies with emphasis on how to assess, plan, design, and implement strategies for adolescent students with mild disabilities, and implement strategies for adolescent students with mild disabilities. Strategy instruction will include the areas of reading, writing, mathematics, study skills, social skills, transition, and employment.

SPE 330 CULTURAL DIVERSITY IN SPECIAL EDUCATION 3 cr.
Studies the definitions, causes, characteristics, and education of children and youth from multi cultural environments. Considers problems in social-psychological context with implications for programs of improvement and research.

SPE 351 BEHAVIOR MANAGEMENT 3 cr.
Studies the implications of behavior theory as classroom teaching techniques. Conditioning of both academic skills and non-academic behaviors on an individual and group is stressed. Direct experience in modifying the behavior of exceptional children will be arranged.

SPE 370 EARLY CHILDHOOD DISABILITIES 3 cr.
Examines the nature, needs, and education of young children with disabilities in infant-toddler, preschool, and primary programs. Emphasis will be on identification, multi-disciplinary educational planning, parent counseling, agencies, and services. Coverage will include special classes, resource rooms, and mainstream education including curriculum, methods, and materials plus the roles of other professionals. Observations and child studies are required. Prerequisite: permission of instructor.

SPE 375 RESIDENTIAL FACILITIES FOR THE DISABLED 3 cr.
Explores the many types of residential facilities, from institutions to independent living, used to house the people with disabilities. The exploration will include philosophies, regulations, policies, and standards applied to facilities. Client programming, staff training, and supportive community agency services will be examined.

SPE 377 ADULT DISABILITIES 3 cr.
Covers a broad range of disabilities in adulthood including physical, mental, and learning disabilities, including emotional problems. Emphasis will be on current program trends, issues, services, research on adult learning and adjustment, and implications for the helping professions.

SPE 380 ASSESSMENT IN SPECIAL EDUCATION 3 cr.
Provides students with the skills necessary to diagnose and correct learning problems. Special attention is given to considerations related to the selection of appropriate formal tests (e.g., test bias). Selective diagnostic instruments are examined. Prerequisite: SPE 201 or permission of instructor.

SPE 390 METHODS FOR INDIVIDUALS WITH MILD DISABILITIES 3 cr.
Provides organizational procedures, curriculum practices, methods and techniques used in educating mildly handicapped students K-12 in need of academic learning support. Emphasis is on direct teaching, collaborative practices, transitional planning, and curriculum adaptation. Prerequisite: SPE 101 and SPE 300.

SPE 391 THE EXCEPTIONAL PERSON IN THE UNITED STATES AND EUROPE - A COMPARATIVE 3 cr.
Designed to provide a comparative study of the U.S. and Europe of the care, treatment, and rehabilitation of exceptional persons from birth through adulthood. Study involves contact with families of exceptional individuals and professionals providing services on both continents.

SPE 400 STUDENT TEACHING 12 cr.
(By arrangement). Opportunity to apply knowledge and skills acquired in professional preparation. Accomplished by a field experience under the supervision of master teachers in two different special classes in university established centers. Observations and conferences are scheduled by the departmental supervisor. Prerequisite: 2.5 QPA.

SPE 407 TRANSITION TO ADULT LIFE 3 cr.
Students examine their basic assumptions about adult life and learn about vocational training, employment services, life skills, educational programs, advocacy and services for adults with disabilities.

SPE 420 OBSERVATION AND PARTICIPATION - SPECIAL ED 3 cr.
Observation and participation in classroom setting. Emphasizing teaching/learning process, selecting, organizing, and presenting lessons and materials. Projects and demonstrations required.

SPE 430 TECHNOLOGY IN SPECIAL EDUCATION 3 cr.
Introduction to and overview of the possibilities provided by microcomputers in assisting the exceptional learner. Provides initial skill and knowledge in using the microcomputer. Exposure will be made to available resources, selection and evaluation of course ware, adaptive devices, curriculum, correlation, and classroom integration.

SPE 440 METHODS FOR INDIVIDUALS WITH MODERATE/SEVERE DISABILITIES 3 cr.
Study of the nature and needs of school age children with moderate and severe handicapping conditions that include cognitive, health and/or physical impairments. Focus is on the educational and vocational needs of these children from a content base which includes identification, assessment, and remediation practices which are coupled with supportive measures, materials, and techniques. The use of instructional adaptations such as assistive technology will be stressed. Prerequisite: SPE 101 and SPE 300.

SPE 450 INTERNSHIP 12 cr.
A supervised field experience in a professional setting serving individuals with disabilities.

SPE 460 PROFESSIONAL SEMINAR 2 cr.
Designed to develop and refine the professional competencies of the special education major prior to the field experience and/or accepting a professional position. Coverage includes general orientation to the profession, current issues, school organization and administration, techniques for seeking a professional position, the scope of the field of special education, and professional responsibilities.

SPE 480 SPECIAL EDUCATION WORKSHOPS 1 - 6 cr.
Special workshop/seminars focusing on contemporary trends, topics, and problems in the field of special education. May be taken for one through six credits.

SPE 481-485 SPECIAL EDUCATION WORKSHOPS 1 - 6 cr.
See SPE 480 for course description.

SPE 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

SOCIAL WORK

SWK 101 HUMAN SERVICES 3 cr.
Introduction to the various professional roles, delivery systems, and agencies in human services. Emergent issues, needs, and trends affecting both public and private sectors will be reviewed.

SWK 201 AFRICAN-AMERICANS: AN INCLUSIVE VIEW 3 cr.
Provides an opportunity for students to gain an awareness and understanding of the important contributions to society made throughout history by persons of color.

SWK 231 CHILD WELFARE 3cr.
Introduces students to the field of child welfare. Students will explore issues affecting the lives of children in the United States and current services developed to meet children's needs. The course is taught from a systems, strengths-based perspective.

SWK 241 INTRODUCTION TO SOCIAL WORK 3 cr.
Analysis of welfare activities as a social movement and of the dominant characteristics of the social welfare institution in America. Attention is given to changing ideologies and to the professionalization of social work practice. Prerequisite: SOC 101; SOC 121 desirable.

SWK 257 SOCIAL WORK PROGRAM ORIENTATION 1 cr.
Acquaints students with the demands of professions in social work education. Examines expected educational outcomes of the social work program in relationship to the required curriculum designed to prepare social work generalists for beginning social work practice.

SWK 258 SOCIAL WORKER'S PROFESSIONAL RESPONSIBILITIES 1 cr.
Acquaints students with the organization of the profession of social work, ethics of the profession as expressed by the National Association of Social Workers, established standards of practice, and public policy statements and objectives.

SWK 259 CURRENT PROFESSIONAL ISSUES IN SOCIAL WORK 1 cr.
Acquaints the student with the major current issues that affect the delivery of social services to vulnerable populations.

SWK 300 HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT 3 cr.
Focuses on selected and current cultural, sociological, economic, and biological factors that have an impact on the growth and development of the individual organism. Examines the interrelationship of social, cultural, subcultural small groups, and situational factors that influence social development.

SWK 308 EVALUATION RESEARCH 3 cr.
A systematic approach to evaluating social work programs and practice outcomes.
SWK 315 (HST 315) EVOLUTION OF SOCIAL WELFARE IN AMERICA 3 cr.
Analyzes the socio-economic experience of America's "Have Nots," ideological views of misfortune, social welfare policy and politics, and the evolution of social work.

SWK 320 GERONTOLOGY 3 cr.
Provides students from a variety of careers (such as social work and psychology) with an introduction to gerontology. Emphasizes a person-in-environment perspective to interacting with older persons and includes a practice-based component. Provides an opportunity for students to practice interaction skills with older persons. Offers current implications of aging in our complex, and increasingly older, modern society.
Prerequisite: SOC 101

SWK 350 SOCIAL WORK METHODS: SMALL GROUPS 3 cr.
Examines methods of facilitating group development and group interaction that enhances attempts to solve problems faced by the group and individual members of the group. Prerequisite: SWK 241.

SWK 351 SOCIAL WORK METHODS: ORGANIZATIONS 3 cr.
Examines social work methods of assessing organizations to identify needs, establish goals for change, and enable the organization to change so as to benefit the individuals, families, and groups that are impacted by it. Prerequisite: SWK 241.

SWK 352 SOCIAL WORK METHODS: FAMILIES 3 cr.
A basic orientation to social work methods used to assist families to achieve their own goals. A systems approach to analyzing and assisting families is emphasized. Prerequisite: SWK 241 or permission of instructor. Dual listed with 552.

SWK 353 SOCIAL WORK METHODS: INDIVIDUALS 3 cr.
Examines methods of assisting individuals by employing social work problem-solving strategies designed to enhance social functioning and relieve stress created by adverse social conditions. Prerequisite: SOC 121 and SWK 241.

SWK 354 CHEMICAL DEPENDENCY TREATMENT 3 cr.
Prepares students for entry-level positions in the chemical dependency field. Analyzes global assessment strategy for differential diagnosis, as well as, beginning intervention techniques with the chemically dependent. Prerequisite: junior standing or documentation of work in a chemical dependency field. Dual listed with 554.

SWK 452 SOCIAL WORK FIELD PLACEMENT 12 cr.
Provides on-the-job study and skill training in a recognized social service agency providing services to various consumer groups. Designed to provide for the application of theory to helping processes with persons in need.

SWK 453 SENIOR SEMINAR 3 cr.
Designed to prepare the graduating social worker to participate actively in the process of supervision used by professional social workers. Students will actively participate in a helping relationship during the semester.

SWK 454 EMPLOYMENT COUNSELING 3 cr.
Introduction to the field of employment services. Examines techniques involved in assessing individual skills and job requirements, as well as, sources of manpower information and forecasting. Covers theories of job selection and career development. Attention is given to the special problems of individuals undergoing retraining or rehabilitation, physically handicapped, and those having limited skills potential.

SWK 457 INTERNATIONAL SOCIAL WORK 3 cr.
Provides an international perspective for examining the values, concepts, and practices of the social work profession. Introduces knowledge of the cultural, social, economic, and political forces that constitute international communities out of which social problems emerge and from which must be drawn resources for providing social services and solving problems.

SWK 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

THEATER

THT 110 INTRODUCTION TO THEATER 3 cr.
Survey of drama and the art and craft of the theater. Content doesn't necessarily include practice in applied theater.

THT 210 STAGECRAFT 3 cr.
Examines principles, procedures, and techniques of theatrical production including: background organization and planning, construction, painting, rigging, and operation of scenic elements, and the use and operation of lighting equipment. The laboratories are connected with the department's productions.

THT 212 FUNDAMENTALS OF ACTING I 3 cr.
Introduces basic techniques and methods of acting. Designed for the beginning actor. No previous acting experience is necessary.

THT 213 FUNDAMENTALS OF ACTING II 3 cr.
Continuation of 212. Emphasis is on scene study, rehearsal, and performance techniques. Prerequisite: THT 212 and permission of instructor.

THT 214 MAKE-UP 3 cr.
Designed to familiarize the student with the basic principles and technique of stage make-up, the various types of make-up and how to apply it in order to enhance a dramatic characterization.

THT 300 ADVANCED ACTING I 3 cr.
Advanced course in the methods and presentations of acting styles, from the ancient Greeks to Shakespeare. Particular emphasis will be placed on performance. Prerequisite: THT 212 and 213.

THT 301 ADVANCED ACTING II 3 cr.
Continuation of 300. Covers Restoration to the Modern Theater.

THT 305 THEATER HISTORY I 3 cr.
The development of the theater from its primitive origins to the Renaissance. Western and Non-Western forms will be examined

THT 306 THEATER HISTORY II 3 cr.
The development of the theater from the Renaissance to the present. Western and Non-western forms will be examined.

THT 310 FUNDAMENTALS OF DIRECTING 3 cr.
Basic principles and procedures of directing a play. Includes directing or workshop scenes and a one-act play presented to a public audience. Prerequisite: THT 210, 212, 305, 306, and permission of instructor.

THT 312 STAGE LIGHTING 3 cr.
The history and basic techniques of lighting for the stage. Lighting designs and control are stressed. Includes participation in lighting major productions. Prerequisite: THT 210.

THT 313 SCENE DESIGN 3 cr.
Study and practice in the principles and techniques of scenic design in the modern theater. Emphasis is on knowledge and sense of the theater and the relationship of the contribution of the scenic designer with those of the actor, director, and playwright. Prerequisite: THT 210, 317 or permission of instructor.

THT 314 PLAY PRODUCTION PRACTICES 3 cr.
Concentrates on the various aspects of theater production from script to performance. An intensive experience in theatrical production for public performance. Synthesis of

acting, design, technical and managerial elements in total production with emphasis on "hands-on" experience.

THT 315 SCENE PAINTING ADVANCED STAGECRAFT 3 cr.
Training in the techniques and practices of contemporary scenic arts. Laboratory time will allow the student to demonstrate a proficiency of the techniques studied.

THT 316 THEATER AND STAGE MANAGEMENT 3 cr.
Fundamental aspects of management designed for the serious student of theater. Provides concentrated experiences in major college productions as well as responsibilities in box-office and publicity.

THT 317 DRAFTING AND SCENIC RENDERING 3 cr.
A study of techniques and conventions of drafting and full color rendering for the theater technician-designer. Prerequisite: THT 210.

THT 318 ADVANCED LIGHTING 3 cr.
Investigation into contemporary practices, equipment, and procedures for lighting all types of theatrical and entertainment events. Includes projects in the field. Prerequisite: THT 312.

THT 410 (COM) INTERNSHIP 6 cr.
Supervised and evaluated participation in varied settings provides practical application of theoretical principles. May be taken from 6 through 15 credits.

THT 417 PLAY STRUCTURE AND ANALYSIS 3 cr.
Analysis of selected plays and their significance in the development of the dramatic form, including the study of the social and cultural conditions in which the playwright lived and worked.

THT 418 PLAY WRITING 3 cr.
Studies the principles and theories of dramatic structure. Practice in writing for the stage. Prerequisite: THT 305, 306, 310, 417, and/or consent of instructor.

THT 450 (COM) SPECIAL PROJECTS 1 - 3 cr.
A project initiated by the student to increase his/her knowledge in an advanced area not offered as a regular class. Intensive study of a subject area under the guidance of a faculty member who has special expertise in that subject. Prerequisite: Permission of instructor. May be taken from 1 through 3 credits not to exceed 9 credits.

THT 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

TRAVEL AND TOURISM

TRT 102 INTRODUCTION TO TRAVEL-TOURISM 3 cr.
Surveys the broad nature of travel-tourism with an emphasis on the interrelationships between traveler need, desire, and travel fulfillment.

TRT 201 COMPUTERIZED RESERVATIONS, TICKETING, TRAVEL AGENCY OPERATIONS 3 cr.
Acquaints student with computerized airline reservations and ticketing procedures including domestic and international route structures, fare rules and construction, industry airline reference materials, and operations of airline computerized reservation

systems. The student will also study the travel agency: its personnel, operations, and management.

TRT 300 THE TRAVEL CONSUMER 3 cr.
Provides students with a comprehensive understanding of the traveler-tourist characteristics, psychographics, and the external influences that impact on potential markets for travel-tourism products.

TRT 312 INTERNATIONAL TOURISM 3 cr.
Studies the international tourist and the ramifications of such tourism to both sending and host countries.

TRT 321 WORLD-WIDE DESTINATIONS ATTRACTIONS 3 cr.
Acquaints the student with the world-wide travel destinations, attractions, and attractiveness. Study of the marketing and promotion of these destinations.

TRT 322 TRAVEL-TOURISM SITE DEVELOPMENT 3 cr.
An analysis of natural/manmade tourism resources of value in travel tourism. The development of resources into viable facilities will be considered in the contexts of changing socioeconomic and political considerations.

TRT 350 HOTEL AND RESORT MANAGEMENT AND OPERATIONS 3 cr.
Exploration of the history, extent and nature of the contemporary hotel and resort industry. Specialized topics such as hotel sales and marketing, planning and development, food and beverage, recreation programming, personnel and security will also be emphasized.

TRT 410 (HEC 310) TOPICAL SEMINAR IN TRAVEL-TOURISM 3 cr.
Seminar topics vary to offer exposure to the multifaceted nature of travel-tourism. Topics include: the travel agency, wholesale tour development, issues in contemporary travel and tourism, and hospitality.

TRT 420 TRAVEL-TOURISM PROJECT SEMINAR 3 cr.
Provides an opportunity to perform individual research, problem solving, and decision making in practical situations related to travel-tourism.

TRT 430 TOURISM SUPPLIERS AND WHOLESALERS 3 cr.
A comprehensive study of travel-tourism suppliers, especially accommodations, food services, and the ground operators followed by a study of the wholesale travel business including personal experience in package/tour development and marketing.

TRT 450 TOURISM RESOURCES MANAGEMENT 3 cr.
Description, planning, maintenance and protection of natural resource based tourism attractions including the management of human impacts and use of such resources.

TRT 460 PASSENGER TRANSPORT 3 cr.
An analysis of spatial principles and transport systems and networks; including factors of route location, theories of interaction, and the role of all forms of passenger transport in the travel-tourism economy.

TRT 461 CRUISE PRODUCTS 3 cr.
Acquaints students with the complexity and diversity of the cruise products available in the marketplace including equipment, corporate products and marketing philosophy, destinations, and markets.

TRT 480 CONTEMPORARY ISSUES TRAVEL TOURISM 3 cr.
Survey of contemporary issues that are faced by the travel and tourism industry. Students become familiar with the issues through intensive study of the popular and trade press.

TRT 494 INTERNSHIP 1 - 15 cr.
Provides an opportunity to apply skills and knowledge of travel-tourism under the supervision of professionals. Two individually designed projects are required. May be taken from one through fifteen credits. Prerequisite: permission of instructor.

TRT 497 INDEPENDENT STUDY 1 - 3 cr.
Independent study is an activity initiated by the student to increase his/her already advanced knowledge in a particular academic discipline. The subject is examined in an intensive manner with guidance by a faculty member who has special expertise in that field. May be taken for 1, 2 or 3 credits at one time.

UNIVERSITY EXPERIENCE

UNV 100 FIRST YEAR SEMINAR 1 cr.
This course introduces first year students to the University and encourages students to become engaged members of the University learning community. The course asks students to explore the context of the Mansfield University undergraduate experience through the perspectives of selected liberal arts disciplines and their own learning community participation. It also helps students explore the means by which they can succeed at the University and how to use the various support services of the University.

WOMEN'S STUDIES

***WS 100 INTRODUCTION TO WOMEN'S STUDIES 3 cr.**
Cross-disciplinary and cross-cultural examination of the ways that language, images, and socialization have constructed women's roles. Examines contemporary women's issues (work and family, sexuality, violence against women), as well as the women's movement and the role of women artists. Emphasis is on students (both female and male) working to discover the impact of these roles and issues in their own lives as well as in the larger world.

WS 410 SEMINAR IN WOMEN'S STUDIES 3 cr.
An in-depth examination of a topic in Women's Studies including women's contributions, knowledge, and perceptions taught from a cross-disciplinary, cross-cultural perspective in seminar style. This serves as the capstone course for the Women's Studies minor. May be taken for a total of nine credits. Prerequisite: ENG 100, two other Women's Studies courses, and junior standing or permission of instructor.

X-RAY TECHNOLOGY

XRT 101 X-RAY TECHNOLOGY I 3 cr.
Introduction to the basic elements of radiologic technology. Students will discuss medicolegal issues, radiation protection; medical terminology, and introductory radiographic procedures. This course is recommended for anyone interested in both radiologic and general health care issues. Course enrollment is open to any university student. Radiology students will be given preference.

XRT 102 X-RAY TECHNOLOGY II 3 cr.
Basic introduction to imaging equipment and concepts of patient care. Students will learn examination considerations for the extremities, spine, shoulder girdle, pelvic girdle, and bony thorax. Prerequisite: XRT 101, BSC 121.

XRT 103 X-RAY TECHNOLOGY III 5 cr.
Acquaints the student with the methods of x-ray film processing and principles of radia-

tion biology. Emphasis will be placed on examinations of the cranium. Radiographic consideration of examinations using contrast media and film evaluation will be discussed. Prerequisite: XRT 102.

XRT 104 X-RAY TECHNOLOGY IV 3 cr.
Studies the principles of radiographic exposure. Emphasis is placed on radiographic examinations of the urinary system and alimentary canal. Students will evaluate radiographic concepts. Prerequisite: XRT 103.

XRT 105 X-RAY TECHNOLOGY V 3 cr.
Examines the radiographic aspects of human disease and pathology. Provides the basic concepts and techniques of radiologic quality assurance and continues to evaluate radiographic images. Prerequisite: XRT 104.

XRT 106 X-RAY TECHNOLOGY VI 4 cr.
Reviews the knowledge and cognitive skills underlying the intelligent performance of the major tasks typically required of an entry-level radiographer. Students will learn the methodology of scientific technical reporting and evaluation. Prerequisite: XRT 105.

XRT 203 X-RAY PHYSICS 3 cr.
Provides background for the more technical aspect of radiological physics. Provides background for understanding the principles and practices of radiology, and an understanding of the electromagnetic spectrum. Prerequisite: PHY 165.

XRT 301 CLINICAL PRACTICUM I 2 cr.
Examines the proper use of modern diagnostic x-ray equipment. Provides a general orientation regarding hospital facilities and policies. Students will perform, while under the direct supervision of a registered radiographer, examinations presented in XRT 102. Prerequisite: XRT 101.

XRT 302 CLINICAL PRACTICUM II 2 cr.
Students continue to practice the skills learned in XRT 301, and expand their clinical education into newer areas. They will perform, while under the direct supervision of a registered radiographer, examinations presented in courses XRT 102 and 103. Patient contact and responsibilities will increase in this course. Prerequisite: XRT 102 and 301.

XRT 303 CLINICAL PRACTICUM III 2 cr.
Provides more advanced examinations presented in XRT 103 and 104. Training in the modalities of Nuclear Medicine and Computerized Tomography will be provided with a two-week rotation through each area. Students will demonstrate traumatic examination skills in the Emergency Room X-Ray Department practicum. Prerequisite: XRT 103 and 302.

XRT 304 CLINICAL PRACTICUM IV 3 cr.
Students continue to perform radiographic examinations in the general diagnostic clinical area along with rotations through cardiovascular imaging, MRI, Ultrasound, and Radiation Therapy. Assignments will be given involving the quality assurance testing of diagnostic x-ray equipment. Prerequisites: XRT 104 and 303.

XRT 305 CLINICAL PRACTICUM V 2 cr.
Performance of radiographic examinations that are done by entry-level radiographers. Patient contact and responsibility will increase with examinations performed under indirect supervision. A clinical elective will be selected for further specialization in any area of radiology. Prerequisite: XRT 105 and 304.

IX. GOVERNING BOARD AND FACULTY

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Faculty

Achey, LesErik B. (1970). B.A., Lebanon Valley College, 1969; M.S., Drexel University, 1971; M.A., Regent University, 1997. Associate Professor, Library.

Alden, Donna (2001). B.A. University of Illinois, 1982; M.S., Kansas State University, 1995: A.B.D., University of Missouri; Instructor, Communication, Theatre and Art.

Alnor, William M. (2001). B.A. Temple University, 1984; M.J., Temple University, 1998. Assistant Professor, Communication, Theatre and Art.

Ambrosio, Antonio (1988). B.S.,B.S.E., State University of Campinas, 1972; M.S., Ibid., 1975; Ph.D., University of Notre.Dame, 1982. Associate Professor, Chemistry and Physics.

Barton, Bruce (1993). B.S., Moorehead State University, 1980; M.A., University of Nebraska-Lincoln, 1982; Ph.D. University of Denver, 1989. Associate Professor, Languages and Literature.

Baylor-Ayewoh, Tondelaya K. (1978). B.A., West Virginia State College, 1974; M.A., Marshall University, 1975; Ph.D., Pennsylvania State University, 1988. Professor, Academic & Human Development.

Benjamin, Jane (1999). B.Ed. Taiwan Normal University, 1984; M.S. SUNY at Albany, 1985, 1986; Ph.D. University of North Carolina at Chapel Hill, 1990. Assistant Professor, Education and Special Education.

Biblehimer, Helen L. (1995). B.S.N., Pennsylvania State University, 1986; M.S., Ibid., 1989, Ph.D., Ibid., 1994. Associate Professor, Robert Packer Department of Health Sciences.

Bickham, Stephen H. (1970). B.A., University of Dayton, 1964; M.A., Southern Illinois University, 1965; Ph.D., Ibid., 1970. Professor, Philosophy and Liberal Studies.

Blanco, Flor (1988). B.A., City University of New York, 1972; M.A., Ibid., 1974; Ph.D., University of Connecticut, 1986. Associate Professor, Languages and Literature.

Borsheim, David J. (1973). B.A., College of St. Thomas, 1968; M.A., Ibid., 1970; M.M., University of Cincinnati-Conservatory of Music, 1973. Associate Professor, Music.

Boston, Nancy J. (1989). B.M., Lawrence University, 1973; M.M., Peabody Conservatory of Music, 1975; D.M.A., Ibid., 1984. Professor, Music.

Brennan, Adam (1995). B.A. Western Illinois University, 1986; M.A., Ibid., 1989; D. M.A., University of Oklahoma, 2000. Associate Professor, Music.

Brown, Stephen D. (1974). B.S.Ed., Eastern Illinois University, 1970; M.S.Ed., Ibid., 1972. Associate Professor, Psychology.

Brucklacher, Barry (1989). B.S.E., Mansfield State College, 1970; M.Ed., Ibid., 1981; Ph.D. Pennsylvania State University, 1992. Professor, Education and Special Education.

Burns, Celeste T. (1975). B.S.Ed., Edinboro State College, 1971; M.Ed., Ibid., 1973; D.Ed., Pennsylvania State University, 1989. Professor, Education and Special Education.

Carpenter, Bruce E. (1987). B.S., Lycoming College, 1974; M.A., University of Connecticut, 1975; Ph.D., University of Connecticut, 1990. Professor, Business and Economics.

Carrish-Bulkley, Sharon A. (1993). B.S., Bowling Green State University, 1971; M.A., Framingham State College, 1984; M.A., Bridgewater State College, 1988; Ph.D., Boston College, 1992. Associate Professor, Communications, Theatre and Art.

Chabala, William (1976). B.S., Kutztown State College, 1971; M.Ed., Ibid., 1976. Associate Professor, Academic & Human Development.

Chester, Michael J. (1993). B.S., University of Delaware, 1985; Ph.D., University of Pennsylvania, 1991. Associate Professor, Chemistry and Physics.

Chua, Frank M. (1999). B.A., Slippery Rock University, 1991; M.A., Southern Illinois University, 1993; Ph.D., Penn State University, 1999. Assistant Professor, History and Political Science.

Cleland, Craig J. (1981). B.S., Millersville State College, 1975; M.Ed., Shippensburg State College, 1978; Ph.D., University of Maryland, 1980. Professor, Education and Special Education.

Craig, Francis (1998). B.A., University of Richmond, 1989; M.A., Loyola-Maryland, 1994; Ph.D. University of Tennessee, 1998. Assistant Professor, Psychology.

Crawshaw, Linda (2001) B.S., Lock Haven University, 1973: M.S., University of Arizona, 1976; Ph.D., Ohio State University 1988. Assistant professor, Robert Packer Department of Health Sciences.

Crowder, Douglas (1998). B.M., Westminster Choir College, 1980; M.C.M., School of Church Music of the Southern Baptist Theological Seminary, 1982; D.M.A., Peabody Institute of John Hopkins University, 1992. Assistant Professor, Music.

Crum, Michael (1984). B.S., Southeast Missouri State University, 1976; M.F.A., University of Southern Mississippi, 1984. Assistant Professor, Communication, Theatre and Art.

Cunningham, Ben (2001). B.S., Indiana University of Pennsylvania, 1985; M.A., National University, 1986; M.A., Indiana University of Pennsylvania, 1991; Ph.D., Pennsylvania State University, 1999; Assistant Professor, Communication, Theatre and Art.

D'Ortona, Catherine M. (1994). B.S., Loyola College, 1989; M.A., University of Virginia, 1992; Ph.D., Ibid., 1994. Associate Professor, Mathematics and Computer Information Science..

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Darby, David J. (1972). B.S., Mansfield State College, 1965; M.S., Pennsylvania State University, 1970; Ph.D., Ibid., 1973, Associate Professor, Geography and Geology.

Davis, Scott A. (1988). B.S., Eastern College, 1977; Ph.D., University of Virginia, 1982. Associate Professor, Chemistry and Physics.

DePumpo, Lester J. (1993). B.S.ED., Wilkes University, 1971; M.S.Ed., Elmira College, 1976; M.S., Syracuse University, 1986. Assistant Professor, Robert Packer Department of Health Sciences.

Dettwiler, Peggy D. (1990). B.S., University of Wisconsin-Platteville, 1970; B.M., University of Wisconsin-Madison, 1982; M.M., Ibid., 1980; M.M., University of Texas-San Antonio, 1985; D.M.A., Eastman School of Music, 1991. Professor, Music.

Dodson, Russell L. (1982). B.S.E., Wayne State University, 1972; M.S., Michigan State University, 1974; Ph.D., Ibid, 1985. Professor, Geography and Geology.

Doerksen, Teri Ann (2000). B.A. Willamette University, 1989; M.A., University of Colorado at Boulder, 1991; Ph.D., University of Pittsburgh, 1997. Assistant Professor, Languages and Literature.

Dorwart, Doris (2001). B.S. Temple University, 1972; M.S., Temple University, 1974; Ed.D., Temple University, 1981; Assistant Professor, Library-Information Services.

Dugan, Mary Jane (1985). B.S., University of Utah, 1975; M.P.A., University of Texas-Austin, 1980; Associate Professor, Business and Economics.

Eidenier, Elizabeth (1978). B.M., Florida State University, 1971; M.M., Florida State University, 1974. Assistant Professor, Music.

Elsasser, Thomas (1982). B.A., Norwich University, 1969; M.A., Fairleigh Dickinson University, 1978. Assistant Professor, Academic & Human Development.

Evans, Wayne (1981). B.S., Lock Haven State College, 1977; M.Ed., Pennsylvania State University, 1980. Associate Professor, Health, Physical Education & Recreation.

Falk, Kristen (2000). B.S., University of Wisconsin-Superior, 1995; M.S., Ibid., 1998. Instructor, Health and Physical Education.

Feil, Richard N. (1968). B.A., Loyola University, 1961; M.A., Catholic University of America, 1963; Ph.D., Ibid., 1968. Professor, Psychology.

Flesch, David C. (1977). B.S., University of Wisconsin-Platteville, 1967; Ph.D., Iowa State University, 1977. Professor, Biology.

Floyd, Jannis (1994). B.A., Wake Forest University, 1975; M.Ed., East Carolina University, 1979; M.A., Appalachian State University, 1983; Ed.S., Virginia Polytechnic and State University, 1992; Ed.D., Ibid., 1995. Associate Professor, Education and Special Education.

Fuller, Janet A. (1980). B.S., Mansfield State College, 1973; M.Ed., Ibid., 1976; Ed.D., Pennsylvania State University, 1989. Associate Professor, Education and Special Education.

Gaballa, Mahmoud A. (1991). B.A., M.A., Alexandria University, 1970; M.B.A., Tarleton State University, 1980; M.P.A., New York University, 1984; Ph.D., Ibid., 1990. Associate Professor, Business and Economics.

Galloway, H. Michael (1980). B.M.E., Baldwin-Wallace College, 1966; M.M., New England Conservatory, 1968; D.M.A., Hartt College, 1986. Professor, Music.

Ganong, Barry R. (1992). B.S., Oral Roberts University, 1977; Ph.D., University of Wisconsin-Madison, 1982. Associate Professor, Chemistry and Physics.

Garrett, Michele P. (1993). B.A., Lebanon Valley College, 1981; M.S.N., Villanova College, 1989. D.N.Sc., Widener University, 1998. Associate Professor, Robert Packer Department of Health Sciences..

Garrison, Frances S. (1985). B.S., James Madison University, 1982; M.L.S., George Peabody College for Teachers of Vanderbilt University, 1985; M.S.Ed., Elmira College, 1990. Associate Professor, Library.

Gaskievicz, Andrew (1999). B.A., Western Washington University, 1988; M.A., Ibid., 1990; Ph.D., SUNY-Stony Brook, 1999. Assistant Professor, History and Political Science.

Ghods, Abe (1983). B.S., Youngstown State University, 1976; M.B.A., Ibid, 1978. Associate Professor, Business & Economics.

Gregorich, Shellie L. (1999). B.A., University of Washington, 1990; M.M., Boston Conservatory, 1992; Ph.D., University of Oregon, 1998. Assistant Professor, Music.

Guenther, Karen (1998). B.A., Stephen F. Austin State University, 1980; M.A., Pennsylvania State University, 1983; Ph.D., University of Houston, 1994. Assistant

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Henry, Elizabeth C. (1999). B.A., Indiana University of PA, 1968; M.A.L.S., University of South Florida, 1991. Instructor, Library.

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Holtman, Bradley A. (1992). B.S., University of Wisconsin-Madison, 1976; M.A., Ibid., 1986; Ph.D. Ibid., 1997. Associate Professor, Languages and Literature.

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King, Hobart M. (1994). B.S., California State College, 1975; M.S., West Virginia University, 1978; Ph.D., Ibid., 1982. Associate Professor, Geography and Geology.

King, Joseph T. (1989). B.S., University of Buffalo, 1969; M.D., Ibid., 1973; Cleveland Clinic, Pathology Residency, 1977. Medical Advisor, Medical Technology Program.

Kirby, John M. (1992). B.S., Missouri Southern State College, 1974; M.S., Millersville State College, 1976; Ph.D., Virginia Polytechnic Institute and State College, 1981. Professor, Biology.

Kollar, Francis J. (1966). B.S. St. Vincent College, 1964; M.Ed., Millersville, 1971. Associate Professor, Academic and Human Development.

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Kutbay, Bonnie G. (1990). B.A., University of Colorado, 1972; M.A., Ibid., 1976; M.A., Arizona State University, 1980; Ph.D., University of Toronto, 1991. Professor, Communication, Theatre, and Art.

Kutty, Gopalan (1984). Bachelor of Commerce, University of Calicut, 1971; Masters of Commerce, Ibid., 1974; M.B.A., Katholieke Universiteit Leuven, 1981; Ph.D., Northeastern University, 1985. Professor, Business and Economics.

Kyofski, Bonelyn L. (1989). B.S., Mansfield State College, 1962; M.A., Pennsylvania State University, 1966; Ph.D., Ibid, 1976. Professor, Education and Special Education.

Labuski-Brown, Lou (1999). B.S.E. Mansfield University, 1992; M.S.E. Mansfield University, 1995. Instructor, Academic and Human Development.

Laib, Susan G. (1989). B.M., Eastman School of Music, 1980; M.M., University of Colorado, 1982, D.M.A., Florida State University, 1997. P.T. Instructor, Music.

Lapps, A. Vernon (1968). A.B., University of Michigan, 1954; M.A., Wayne State University, 1965; Ph.D., Ohio University, 1973. Professor, Communication, Theatre and Art.

Largey, Gale P. (1970). B.A., St. Vincent College, 1966; M.A., SUNY-Buffalo, 1968; Ph.D., Ibid, 1972. Professor, Social Work, Anthropology and Sociology.

Launius, Margaret H. (1989). B.A., California State Polytechnic University, 1981; M.A., California State University-Fullerton, 1983; Ph.D., Louisiana State University, 1988. Professor, Psychology.

Lienhard, Clarence W. (1987). B.S., Lafayette College, 1982; M.S., Lehigh University, 1984; Ph.D., Ibid., 1988. Professor, Mathematics and Computer Information Science.

Loher, Brian T. (1990). B.A., Indiana University, 1980; M.A., Michigan State University, 1984; Ph.D., Ibid., 1987. Associate Professor, Psychology.

Longoria, Andrew (1992). B.A., Linfield College, 1981; M.A., University of Oregon, 1989; Ph.D., Ibid., 1992. Associate Professor, Communication, Theatre and Art.

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Mansfield, John (2001). B.S.W., Florida Atlantic University; M.S.W., Barry University, A.B.D., Barry University ; Assistant Professor, Social Work, Anthropology, Sociology.

Maris, Robert C. (1988). B.S., Texas A&M University, 1975; M.S., University of Southern Mississippi, 1980; Ph.D., Old Dominion University, 1986. Professor, Biology.

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McBrearty, Angela (1998). B.M.E., Houghton College 1987; M.M. SUNY-Binghamton, 1989. Assistant Professor, Music.

McEuen, Stephen P. (1977). B.M., Northeast Missouri State University, 1974; B.M.E., Ibid., 1974; M.M., The Julliard School, 1976. Assistant Professor, Music.

McEwan, Mary (1993). B.S., Elmira College, 1989; M.S., SUNY-Binghamton, 1991; M.S.Ed., Elmira College, 2000. Assistant Professor, Robert Packer Department of Health Sciences.

McGuire, Jane (1994). B.S., Boston University, 1956; M.S., SUNY-Binghamton, 1983; Ph.D., Cornell University, 1993. Assistant Professor, Robert Packer Department of Health Sciences.

McQuaid, Kathleen (1990). B.A., Temple University, 1975; M.A., Ibid., 1979; Ph.D., Ibid., 1990. Associate Professor, History and Political Science.

Meyer, Kenneth A. (1972). B.A., SUNY-Oneonta, 1966; M.A., University of North Carolina-Chapel Hill, 1969; Ph.D., Ibid.,1972. Professor, Biology.

Monkelien, Sheryl (2001) : B.M., Iowa State University, 1980 ; M.M., University of Nebraska-Lincoln, 1995 ; Ph.D., University of Nebraska, 2001 ; Assistant Professor, Music.

Moore, Michele M. (2001). B.S.E., Mansfield University, 1992 ; M.Ed., Mansfield University, 1996 ; Ph.D., Pennsylvania State University, 2001. Assistant Professor, Education and Special Education.

Murphy, Joseph M. (1987). B.M.E., Bowling Green State University, 1982; M.M., Northwestern University, 1983; D.M.A., Ibid., 1994. Professor, Music.

Murphy, Thomas P. (1995). B.A., Fordham University, 1968; M.A., Ohio State University, 1970; Ph.D., Ibid., 1975. Associate Professor, Languages and Literature.

Murray, J. Dennis (1978). B.A., Syracuse University, 1970; M.A., University of Rochester, 1974; Ph.D., Ibid., 1975. Professor, Psychology.

Newman, Ira (1972). A.B., Columbia College, 1962; M.A., Columbia University, 1971; Ph.D., University of Connecticut, 1984. Professor, Philosophy and Liberal Studies.

Owens, Konrad (1966). B.M., Oberlin Conservatory, 1964; B.A. Oberlin College, 1964; M.M., Michigan State University, 1966; B.S., Elmira College, 1982; D.M.A., Michigan State University, 1988. Professor, Music.

Oyallon, Monique (2000). B.A., UniversitJ de Toulouse-Le Mirail, 1976; M.A., UniversitJ de Toulouse I, 1976; CAPES de Sciences Economiques et Sociales, French National Teaching Certificate, 1978; Ph.D., UniversitJ de la Sorbonne Nouvelle, 1992., Assistant Professor, Languages and Literature.

Phillips, John E. (2000). B.S., Virginia Polytechnic Institute, 1979; M.S., Kansas State University, 1991. Assistant Professor, Mathematics and Computer Information Science.

Pieper, Holly (2001). B.A., Mt. Mary College, 1992; M.S., Ithaca College, 1997. Instructor Communication, Theatre and Art.

Pifer, Lynn (1991). B.A., University of Illinois, 1984; M.A., SUNY-Buffalo, 1987; Ph.D., Ibid., 1991. Professor, Languages and Literature.

Ramasamy, Shaker G. (1984). B.Sc., Madras University, 1974; M.Sc., Ibid., 1976; Ph.D., Oklahoma State University, 1984. Professor, Chemistry and Physics.

Rashidi, Linda Stump (1999). B.A., College of Wooster, 1965; M.S., Syracuse University 1967; M.A., Central Michigan University, 1983; Ph.D., Michigan State University, 1992. Assistant Professor, Languages and Literature.

Robarge, Mark (1981). B.S., SUNY-Albany, 1973; M.A., Ibid., 1974; Ph.D., Ibid., 1979. Associate Professor, Criminal Justice Administration.

Rotella, Deborah K. (2000). B.S. University of Kentucky, 1990; M.S. Finch University of Health Sciences / Chicago Medical School, 1997. Instructor, Academic and Human Development.

Ryan, Edward S. (1975). A.B., Fordham College, 1966; M.P.A., City University of New York, 1968; M.A., SUNY-Albany, 1975; Ph.D., Ibid., 1978. Professor, Criminal Justice Administration.

Sabol, Bernard S. (1969). B.S., Pennsylvania State University, 1963; M.A., Allegheny College, 1969. Associate Professor, Health, Physical Education & Recreation.

Sanders, Walter (1967). A.B., Washington University, 1957; M.S., University of Wisconsin, 1958. Professor, Languages and Literature.

Sarch, Kenneth L. (1995). B.M., Julliard School of Music, 1965; M.M., Ibid., 1966; D.M.A., Boston University, 1982. Professor, Music.

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Schankman, Larry (1993). B.A., Grinnell College, 1979; B.A., University of California, 1982; M.L.S., University of Washington, 1991; M.S., Bloomsburg University, 2000. Assistant Professor, Library.

Schintzius, A. Hugh (1972). Ed.B., University of Buffalo, 1966; M.Ed., West Chester University, 1972. Assistant Professor, Health, Physical Education and Recreation.

Schmid, Mark-Daniel (1999). B.A. Staatliche Hochschule fhr Musik, 1984; M.A. West Chester University, 1992; Ph. D., Northwestern University, 1997. Assistant Professor, Music.

Schuerman, Robert (1994). B.S., University of Illinois, 1968; M.S., Ibid., 1977; M.S., University of Wisconsin, 1983; Ph.D., Pennsylvania State University, 1991. Associate Professor, Mathematics and Computer Information Science.

Seidel, Charles F. (1967). B.A., Lycoming College, 1957; M.A., Temple University, 1959; Ph.D., University of Liverpool, England, 1962. Professor, Psychology.

Seigart, Denise (1993). B.S.N., Niagara University, 1980; M.S., SUNY-Binghamton, 1987; Ph.D., Cornell University, 1999. Associate Professor, Robert Packer Department of Health Sciences.

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Sidell, Nancy (1998). B.A., Kent State University, 1979; M.R.C., Bowling State University, 1984; M.S.W., Case Western Reserve University, 1990; Ph.D., Ohio State University, 1998. Assistant Professor, Social Work,Anthropology,Sociology.

Sidler, Jack D. (1967). B.S., Geneva College, 1961; Ph.D., SUNY-Buffalo, 1966.

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